



# MAY 2008

## 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		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14					SPEED 20	DIR 21	SPEED 22	DIR 23				
01	81	45	63	2	43	53	2	0	FG+ BR			0.00	29.05	30.01	3.9	21	4.2	30	21	20	21	01		
02	80	53	67	5	47	58	0	2				0.00	28.99	29.93	4.6	22	5.7	31	23	20	21	02		
03	73	58	66	4	54	59	0	1	RA BR			0.17	28.92	29.88	4.5	21	5.4	25	26	14	20	03		
04	73	49	61	-1	41	51	4	0				0.00	29.08	30.06	0.7	04	2.6	15	01	12	06	04		
05	77	45	61	-2	39	50	4	0				0.00	29.10	30.07	1.3	04	2.3	15	01	10	07	05		
06	78	45	62	-1	43	53	3	0				0.00	29.13	30.08	0.4	11	0.6	15	21	8	14	06		
07	82	58	70	7	52	60	0	5				0.00	28.98	29.91	4.3	21	5.1	28	22	16	19	07		
08	76	61	69	6	56	61	0	4	RA BR HZ			0.67	28.80	29.72	0.6	28	2.6	17	21	12	21	08		
09	79	60	70	6	58	62	0	5	RA BR			0.65	28.77	29.72	2.7	23	3.9	35	32	22	33	09		
10	76	58	67	3	55	60	0	2	BR			0.00	28.87	29.81	1.0	08	1.8	13	13	9	06	10		
11	71	51	61	-3	50	55	4	0	RA BR			0.24	28.64	29.58	8.2	25	9.3	40*	26	25*	26	11		
12	71	50	61	-4	41	50	4	0				0.00	28.91	29.90	2.1	31	3.6	21	27	13	26	12		
13	74	44*	59	-6	44	52	6	0				0.00	29.12	30.09	0.1	04	0.9	10	10	7	07	13		
14	68	55	62	-3	54	57	3	0	RA BR			0.12	29.10	30.06	1.9	23	3.0	14	25	9	26	14		
15	66	61	64	-1	60	61	1	0	RA BR			0.68	28.99	29.92	0.2	10	1.2	17	18	12	17	15		
16	65	49	57*	-9	52	55	8	0				0.00	28.92	29.89	2.3	25	4.8	18	27	12	32	16		
17	73	46	60	-6	48	53	5	0	FG+ FG BR			0.00	28.95	29.90	1.2	24	2.8	20	22	13	20	17		
18	71	54	63	-3	54	57	2	0	RA FG+ FG BR			0.23	28.72	29.67	3.0	22	4.1	21	20	14	21	18		
19	77	47	62	-4	48	55	3	0	FG+ BR			0.00	28.79	29.74	2.9	21	3.6	20	22	14	20	19		
20	81	58	70	3	53	60	0	5	RA			T	28.65	29.59	2.9	28	4.4	30	27	16	28	20		
21	74	50	62	-5	43	52	3	0	BR			0.00	28.77	29.73	2.0	26	2.7	21	28	14	27	21		
22	79	47	63	-4	47	55	2	0				0.00	28.90	29.86	0.9	16	1.7	14	19	10	18	22		
23	82	56	69	1	54	61	0	4				0.00	29.00	29.94	0.6	04	1.2	12	07	9	07	23		
24	82	59	71	3	53	60	0	6				0.00	29.05	30.00	2.2	05	3.3	15	06	12	06	24		
25	83	51	67	-1	50	58	0	2				0.00	29.11	30.06	0.7	21	2.2	15	28	10	26	25		
26	83	62	73	5	60	64	0	8	RA BR			0.28	29.09	30.03	2.5	23	4.0	26	26	16	28	26		
27	83	65	74	5	65	68	0	9	RA			T	29.06	30.00	1.9	23	2.9	22	26	12	25	27		
28	77	62	70	1	64	66	0	5	RA			T	29.11	30.07	2.0	04	3.5	14	02	9	06	28		
29	80	62	71	2	62	65	0	6				0.00	29.18	30.13	0.2	24	1.5	12	25	8	19	29		
30	83	66	75	6	65	68	0	10	RA BR HZ			0.01	29.14	30.07	1.4	22	2.5	14	18	9	20	30		
31	88*	70	79*	9	65	70	0	14	BR HZ			0.00	29.05	29.97	2.9	24	4.3	23	21	14	21	31		
77.0		54.7	65.9	Σ	52.3	58.4	1.7	2.8	< MONTHLY AVERAGES   TOTALS >				3.05	28.97	29.92	1.4	23	3.3	< MONTHLY AVERAGES					
-0.8		1.3	0.3		-----DEPARTURE FROM NORMAL ----->				-2.09	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 0.68 DATE : 15				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.19 29 0853							
SEASON TO DATE									GREATEST SNOW DEPTH :				MINIMUM :				29.44 11 0853							
TOTAL DEPARTURE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 9			
TOTAL DEPARTURE									THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 8			
HEATING : 54 -26 3402 -585									HEAVY FOG : 4				SNOWFALL >= 1.0 INCH :											
COOLING : 88 -7 118 2																								

MAY 2008  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
MAY 2008

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	0.17	0.17	
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	0.67	0.67	
09													09												09	0.65	0.65	
10													10												10	0.00	0.00	
11													11												11	0.24	0.24	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.12	0.12	
15													15												15	0.68	0.68	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.23	0.23	
19													19												19	0.00	0.00	
20													20												20	T	T	
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	0.28	0.28	
27													27												27	T	T	
28													28												28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.01	0.01	
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)	0.48	0.62	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64	0.64
Ending Date	09	09	09	09	09	09	09	09	09	09	09	09
Ending Time (Hr/Min)	1929	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930	1930

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 MAY 2008

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							1.50	10.00	
02							10.00	10.00	
03							3.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							2.00	10.00	
09							5.00	10.00	
10							5.00	10.00	
11							6.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							3.00	10.00	
15							1.00	10.00	
16							8.00	10.00	
17							0.25	10.00	
18							0.25	10.00	
19							0.25	10.00	
20							10.00	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							1.75	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							7.00	10.00	
30							5.00	8.00	
31							2.00	10.00	
MONTHLY AVGS							6.26	9.94	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0				>= 7.0		
3			10				16		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)															
			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	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												
																														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: 0545														MAY 01														SUNSET: 1923													
01	CLR	NC			10.00		50	46	48	86	0	00	29.08	30.04	01	CLR	NC			10.00		60	52	56	75	0	00	29.05	29.99												
04	CLR	NC			9.00	BR	46	43	45	89	0	00	29.09	30.05	04	BKN	110			10.00		58	52	55	81	0	00	29.04	29.98												
07	CLR	NC			5.00		47	44	46	89	0	00	29.13	30.11	07	CLR	NC			10.00		58	52	55	81	0	00	29.06	30.01												
10	CLR	NC			10.00		64	46	54	52	0	00	29.14	30.10	10	CLR	NC			10.00		72	47	58	41	5	VR	29.04	29.98												
13	CLR	NC			10.00		77	40	57	27	11	21	29.05	30.00	13	FEW	060			10.00		80	52	63	38	13	22	28.96	29.90												
16	CLR	NC			10.00		80	40	58	24	7	21	28.98	29.93	16	SCT	090			10.00		81	51	63	35	13	21	28.90	29.83												
19	CLR	NC			10.00		75	42	57	31	0	00	28.96	29.92	19	OVC	080			10.00		79	55	64	44	6	21	28.88	29.82												
22	CLR	NC			10.00		74	41	56	31	9	20	28.99	29.93	22	SCT	085			10.00		76	55	63	48	5	20	28.88	29.81												
SUNRISE: 0544														MAY 02														SUNSET: 1924													
01	CLR	NC			10.00		68	43	55	41	3	24	29.00	29.93	01	BKN	065			10.00		73	55	62	53	3	27	28.87	29.79												
04	FEW	060			10.00		59	46	52	62	0	00	29.02	29.96	04	OVC	110			10.00		71	56	62	59	0	00	28.87	29.79												
07	CLR	NC			10.00		58	49	53	72	0	00	29.03	29.98	07	CLR	NC			10.00		67	55	60	66	3	33	28.85	29.78												
10	CLR	NC			10.00		73	49	59	43	5	VR	29.05	29.98	10	CLR	NC			10.00		74	46	58	37	5	VR	28.82	29.74												
13	CLR	NC			10.00		78	45	60	31	13	23	28.99	29.92	13	SCT	095			10.00		71	54	61	55	6	28	28.77	29.70												
16	CLR	NC			10.00		80	51	63	37	7	24	28.95	29.88	16	OVC	065			2.00		64	62	63	93	3	33	28.76	29.68												
19	OVC	090			10.00		77	47	60	35	7	VR	28.96	29.90	19	OVC	065			2.50		63	60	61	90	0	00	28.71	29.65												
22	SCT	080			10.00		74	50	60	43	3	22	28.99	29.92	22	OVC	015			4.00		62	59	60	90	0	00	28.71	29.65												
SUNRISE: 0543														MAY 03														SUNSET: 1925													
01	CLR	NC			10.00		73	51	60	46	8	19	28.93	29.85	01	OVC	100			7.00		64	61	62	90	5	22	28.73	29.66												
04	BKN	110			10.00		71	52	60	51	7	22	28.93	29.85	04	OVC	035			9.00		63	60	61	90	0	00	28.74	29.68												
07	OVC	120			10.00		69	51	59	53	10	19	28.93	29.86	07	OVC	060			7.00		63	61	62	93	3	22	28.78	29.72												
10	OVC	049			3.00	-RA	58	53	55	84	5	VR	28.98	29.92	10	OVC	041			10.00		69	58	62	68	6	VR	28.79	29.73												
13	BKN	039			10.00		63	56	59	78	8	22	28.93	29.87	13	BKN	040			10.00		72	56	62	57	7	VR	28.82	29.76												
16	BKN	037			10.00		69	57	62	66	9	20	28.91	29.84	16	SCT	044			10.00		77	57	65	50	8	21	28.77	29.70												
19	BKN	085			10.00		69	56	61	63	6	19	28.92	29.86	19	BKN	100			10.00		76	54	63	47	0	00	28.77	29.70												
22	BKN	080			10.00		66	58	61	76	3	25	28.99	29.94	22	BKN	110			10.00		63	60	61	90	0	00	28.83	29.77												
SUNRISE: 0542														MAY 04														SUNSET: 1926													
01	CLR	NC			10.00		58	46	52	65	6	VR	29.05	30.01	01	BKN	100			8.00		61	59	60	93	0	00	28.84	29.78												
04	CLR	NC			10.00		50	41	46	71	3	02	29.10	30.06	04	FEW	031			8.00		60	58	59	93	0	00	28.87	29.80												
07	CLR	NC			10.00		50	39	45	66	0	00	29.13	30.09	07	CLR	NC			6.00		60	57	58	90	0	00	28.91	29.85												
10	SCT	034			10.00		60	43	51	54	3	VR	29.15	30.11	10	OVC	032			10.00		64	54	58	70	3	07	28.95	29.90												
13	CLR	NC			10.00		67	43	54	42	5	07	29.12	30.07	13	FEW	043			10.00		72	52	60	50	7	08	28.90	29.84												
16	CLR	NC			10.00		72	38	54	29	0	00	29.06	30.01	16	CLR	NC			10.00		75	53	62	46	6	VR	28.84	29.78												
19	CLR	NC			10.00		69	40	54	35	0	00	29.06	30.02	19	CLR	NC			10.00		73	53	61	50	3	15	28.86	29.80												
22	CLR	NC			10.00		58	42	50	55	0	00	29.10	30.07	22	CLR	NC			10.00		67	57	61	70	0	00	28.80	29.74												
SUNRISE: 0541														MAY 05														SUNSET: 1927													
01	CLR	NC			10.00		52	43	48	72	0	00	29.10	30.06	01	SCT	110			10.00		63	58	60	84	0	00	28.74	29.68												
04	CLR	NC			10.00		47	42	45	83	0	00	29.10	30.06	04	BKN	075			9.00		62	59	60	90	3	17	28.66	29.58												
07	CLR	NC			10.00		50	44	47	80	0	00	29.14	30.10	07	OVC	060			9.00		62	59	60	90	3	VR	28.58	29.50												
10	CLR	NC			10.00		68	41	54	38	6	VR	29.14	30.10	10	FEW	048			10.00		70	54	61	57	13	28	28.54	29.46												
13	CLR	NC			10.00		72	38	54	29	6	13	29.12	30.08	13	BKN	060			10.00		66	44	54	45	14	24	28.56	29.49												
16	FEW	090			10.00		74	37	55	26	5	04	29.08	30.04	16	OVC	050			10.00		58	41	49	53	13	26	28.63	29.57												
19	CLR	NC			10.00		73	30	52	20	3	31	29.09	30.04	19	OVC	035			10.00		53	45	49	74	13	24	28.69	29.64												
22	CLR	NC			10.00		58	40	49	51	0	00	29.13	30.08	22	OVC	029			10.00		52	46	49	80	5	24	28.76	29.70												
SUNRISE: 0540														MAY 06														SUNSET: 1927													
01	CLR	NC			10.00		51	42	47	71	0	00	29.13	30.10	01	OVC	040			10.00		56	42	49	60	0	00	28.80	29.75												
04	CLR	NC			10.00		47	42	45	83	0	00	29.14	30.10	04	OVC	045			10.00		56	41	49	57	3	VR	28.85	29.81												
07	CLR	NC			10.00		48	43	46	83	0	00	29.18	30.14	07	OVC	039			10.00		55	41	48	59	0	00	28.92	29.89												
10	CLR	NC			10.00		67	44	55	44	0	00	29.18	30.14	10	FEW	040			10.00		59	40	50	50	7	VR	28.97	29.93												
13	CLR	NC			10.00		74	38	55	27	0	00	29.14	30.10	13	CLR	NC			10.00		67	40	53	37	6	VR	28.96	29.91												
16	CLR	NC			10.00		78	37	57	23	0	00	29.09	30.04	16	CLR	NC			10.00		70	36	53	29	5	VR	28.94	29.89												
19	CLR	NC			10.00		73	44	57	35	0	00	29.07	30.03	19	CLR	NC			10.00		66	39	52	37	3	35	28.98	29.94												
22	CLR	NC			10.00		63	49	55	60	0	00	29.08	30.03	22	CLR	NC			10.00		54	43	49	67	0	00	29.05	30.01												

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2008

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)	STATION	SEA LEVEL											
																												DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
SUNRISE: 0533													MAY 13													SUNSET: 1933												
01	CLR	NC			10.00		49	43	46	80	0	00	29.07	30.03	01	OVC	005			0.25	FG	54	53	53	96	0	00	28.79	29.75									
04	CLR	NC			10.00		47	43	45	86	0	00	29.10	30.06	04	CLR	NC			7.00		50	47	48	90	0	00	28.80	29.76									
07	CLR	NC			10.00		48	44	46	86	0	00	29.17	30.14	07	CLR	NC			10.00		51	48	49	90	3	26	28.85	29.81									
10	CLR	NC			10.00		63	44	53	50	3	VR	29.20	30.17	10	CLR	NC			10.00		65	47	55	52	8	23	28.88	29.83									
13	CLR	NC			10.00		70	43	56	38	0	00	29.15	30.11	13	CLR	NC			10.00		72	44	57	37	10	18	28.83	29.78									
16	CLR	NC			10.00		74	42	57	32	0	00	29.12	30.07	16	CLR	NC			10.00		77	45	59	32	9	20	28.77	29.70									
19	CLR	NC			10.00		71	41	55	34	3	24	29.12	30.08	19	CLR	NC			10.00		73	51	60	46	0	00	28.73	29.67									
22	CLR	NC			10.00		63	48	55	58	0	00	29.10	30.06	22	CLR	NC			10.00		67	53	59	61	0	00	28.70	29.64									
SUNRISE: 0532													MAY 14													SUNSET: 1934												
01	CLR	NC			10.00		56	49	52	78	0	00	29.10	30.06	01	OVC	110			10.00		63	54	58	73	0	00	28.66	29.59									
04	CLR	NC			10.00		59	48	53	67	0	00	29.10	30.05	04	OVC	055			10.00		67	54	59	63	5	28	28.63	29.55									
07	CLR	NC			10.00		60	49	54	67	0	00	29.13	30.09	07	OVC	048			10.00		69	57	62	66	0	00	28.66	29.58									
10	OVC	055			4.00	-RA	59	54	56	84	6	VR	29.17	30.14	10	BKN	055			10.00		75	59	65	58	7	24	28.68	29.60									
13	OVC	070			9.00		62	56	59	81	5	21	29.12	30.08	13	SCT	080			10.00		79	55	64	44	7	27	28.64	29.57									
16	OVC	048			10.00		67	55	60	66	3	VR	29.07	30.02	16	CLR	NC			10.00		79	46	60	31	10	29	28.61	29.53									
19	OVC	050			10.00		65	57	60	75	0	00	29.06	30.01	19	FEW	075			10.00		72	47	58	41	8	32	28.66	29.59									
22	OVC	080			10.00		64	58	60	81	3	23	29.10	30.05	22	SCT	060			10.00		64	49	56	58	3	34	28.73	29.65									
SUNRISE: 0532													MAY 15													SUNSET: 1935												
01	OVC	070			10.00		63	58	60	84	3	20	29.07	30.02	01	SCT	055			10.00		58	49	53	72	0	00	28.76	29.69									
04	OVC	100			4.00	BR	61	59	60	93	0	00	29.03	29.98	04	SCT	070			9.00		52	48	50	86	0	00	28.76	29.69									
07	OVC	070			4.00	BR	61	58	59	90	0	00	29.04	29.99	07	CLR	NC			8.00		54	49	51	83	0	00	28.79	29.74									
10	OVC	036			2.50	BR	61	59	60	93	5	05	29.02	29.97	10	CLR	NC			10.00		64	40	52	42	0	00	28.82	29.77									
13	OVC	035			4.00	BR	63	59	61	87	0	00	29.00	29.95	13	CLR	NC			10.00		70	38	54	31	8	25	28.78	29.73									
16	SCT	033			2.50	-RA BR	65	62	63	90	3	12	28.90	29.85	16	CLR	NC			10.00		74	37	55	26	8	26	28.76	29.70									
19	OVC	050			2.50	-RA BR	65	62	63	90	0	00	28.88	29.83	19	CLR	NC			10.00		70	40	54	34	5	27	28.77	29.72									
22	OVC	028			2.50	-RA BR	64	62	63	93	0	00	28.87	29.82	22	CLR	NC			10.00		60	44	52	56	0	00	28.82	29.77									
SUNRISE: 0531													MAY 16													SUNSET: 1936												
01	OVC	039			10.00		65	63	64	93	5	22	28.85	29.80	01	CLR	NC			10.00		52	45	48	77	0	00	28.83	29.78									
04	OVC	022			10.00		65	62	63	90	3	VR	28.82	29.77	04	CLR	NC			10.00		49	44	47	83	0	00	28.87	29.83									
07	SCT	030			10.00		61	54	57	78	8	25	28.88	29.83	07	CLR	NC			10.00		51	46	48	83	0	00	28.93	29.88									
10	OVC	034			10.00		62	51	56	67	6	VR	28.91	29.86	10	CLR	NC			10.00		69	46	56	44	0	00	28.93	29.87									
13	OVC	028			10.00		61	49	54	65	6	VR	28.95	29.91	13	CLR	NC			10.00		74	45	58	36	5	17	28.93	29.88									
16	OVC	070			10.00		59	46	52	62	7	VR	28.97	29.93	16	CLR	NC			10.00		77	44	59	31	5	12	28.91	29.86									
19	OVC	041			10.00		56	46	51	69	6	36	29.00	29.96	19	CLR	NC			10.00		76	48	60	37	5	22	28.91	29.86									
22	FEW	041			10.00		53	48	50	83	0	00	29.04	30.00	22	CLR	NC			10.00		67	51	58	57	0	00	28.96	29.90									
SUNRISE: 0530													MAY 17													SUNSET: 1936												
01	CLR	NC			8.00		48	45	47	89	0	00	29.01	29.98	01	BKN	100			10.00		62	53	57	73	0	00	28.97	29.91									
04	OVC	006			0.50	FG	47	45	46	93	0	00	28.99	29.96	04	SCT	095			10.00		58	50	54	75	0	00	28.97	29.91									
07	OVC	001			0.50	FG	48	46	47	93	0	00	29.01	29.99	07	SCT	090			10.00		60	52	56	75	0	00	29.03	29.97									
10	OVC	007			10.00		54	48	51	80	7	20	29.02	29.99	10	BKN	070			10.00		72	50	59	46	5	05	29.05	29.98									
13	CLR	NC			10.00		69	49	58	49	5	VR	28.94	29.90	13	SCT	095			10.00		74	53	62	48	0	00	29.04	29.98									
16	OVC	080			10.00		71	50	59	48	5	22	28.87	29.83	16	CLR	NC			10.00		81	56	66	42	3	VR	28.97	29.91									
19	SCT	070			10.00		72	47	58	41	5	VR	28.84	29.79	19	CLR	NC			10.00		79	58	66	49	0	00	28.96	29.90									
22	CLR	NC			10.00		59	51	55	75	0	00	28.86	29.82	22	BKN	060			10.00		70	60	64	71	0	00	29.01	29.95									
SUNRISE: 0529													MAY 18													SUNSET: 1937												
01	CLR	NC			10.00		57	50	53	78	0	00	28.80	29.75	01	FEW	075			8.00		65	60	62	84	0	00	29.01	29.94									
04	CLR	NC			10.00		54	50	52	86	0	00	28.76	29.70	04	BKN	070			10.00		66	52	58	61	5	06	29.03	29.96									
07	CLR	NC			10.00		59	50	54	72	6	26	28.74	29.67	07	BKN	060			10.00		65	53	58	65	5	05	29.07	30.00									
10	CLR	NC			10.00		63	53	57	70	6	22	28.70	29.65	10	SCT	080			10.00		68	54	60	61	6	08	29.09	30.03									
13	BKN	080			10.00	-RA	64	56	59	75	7	VR	28.70	29.64	13	CLR	NC			10.00		77	58	65	52	5	VR	29.09	30.03									
16	FEW	027			10.00		69	56	61	63	13	20	28.64	29.58	16	CLR	NC			10.00		81	51	63	35	9	05	29.07	30.00									
19	BKN	100			10.00		63	57	59	81	3	21	28.68	29.62	19	CLR	NC			10.00		75	46	59	36	0	00	29.08	30.02									
22	CLR	NC			9.00		58	56	57	93	3	22	28.77	29.72	22	CLR	NC			10.00		63	49	55	60	0	00	29.10	30.04									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2008

KOQT

WBAN # 53868

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
<b>SUNRISE: 0525      MAY 25      SUNSET: 1943</b>														
01	CLR	NC				58	48	53	70	0	00	29.10	30.05	
04	CLR	NC				53	48	50	83	0	00	29.12	30.06	
07	CLR	NC				56	49	52	78	0	00	29.16	30.11	
10	CLR	NC				70	48	58	46	0	00	29.17	30.12	
13	CLR	NC				79	53	63	41	9	21	29.13	30.08	
16	CLR	NC				82	48	62	31	5	25	29.09	30.03	
19	CLR	NC				80	51	63	37	5	15	29.07	30.01	
22	CLR	NC				67	56	61	68	0	00	29.07	30.01	
<b>SUNRISE: 0524      MAY 26      SUNSET: 1943</b>														
01	CLR	NC				64	56	59	75	0	00	29.05	29.98	
04	CLR	NC				65	55	59	70	3	22	29.10	30.03	
07	SCT	110				66	58	61	76	0	00	29.13	30.06	
10	CLR	NC				75	58	65	56	6	VR	29.13	30.07	
13	CLR	NC				79	60	67	52	8	25	29.10	30.04	
16	CLR	NC				82	62	69	51	5	VR	29.05	29.98	
19	OVC	065			RA BR	67	64	65	90	6	VR	29.10	30.05	
22	OVC	007				65	62	63	90	0	00	29.08	30.01	
<b>SUNRISE: 0524      MAY 27      SUNSET: 1944</b>														
01	OVC	008				66	63	64	90	0	00	29.06	29.99	
04	BKN	085			-RA	66	63	64	90	0	00	29.07	30.00	
07	BKN	090				66	63	64	90	0	00	29.10	30.05	
10	SCT	049				72	63	66	73	5	25	29.10	30.04	
13	SCT	046				80	65	70	60	8	20	29.08	30.01	
16	SCT	080				82	66	71	58	6	21	29.04	29.96	
19	CLR	NC				79	67	71	67	0	00	29.03	29.96	
22	BKN	070				75	68	70	79	0	00	29.06	29.99	
<b>SUNRISE: 0523      MAY 28      SUNSET: 1945</b>														
01	OVC	075				70	66	67	87	3	16	29.07	30.00	
04	OVC	022				70	66	67	87	0	00	29.07	30.00	
07	OVC	095				70	66	67	87	0	00	29.12	30.05	
10	FEW	080			-RA	72	66	68	82	0	00	29.15	30.09	
13	OVC	049				75	66	69	74	6	36	29.15	30.09	
16	BKN	110				76	66	69	71	6	VR	29.14	30.08	
19	CLR	NC				71	61	65	71	6	VR	29.14	30.09	
22	CLR	NC				65	58	61	78	8	06	29.19	30.14	
<b>SUNRISE: 0523      MAY 29      SUNSET: 1946</b>														
01	CLR	NC				62	57	59	84	3	06	29.17	30.12	
04	OVC	024				63	58	60	84	0	00	29.19	30.13	
07	OVC	022				65	59	61	81	3	09	29.22	30.17	
10	BKN	040				71	60	64	68	0	00	29.23	30.18	
13	OVC	040				75	63	67	66	5	24	29.19	30.14	
16	OVC	060				78	64	69	62	0	00	29.15	30.10	
19	CLR	NC				78	63	68	60	0	00	29.14	30.09	
22	CLR	NC				71	65	67	81	0	00	29.17	30.12	
<b>SUNRISE: 0523      MAY 30      SUNSET: 1946</b>														
01	CLR	NC			BR	67	64	65	90	3	22	29.16	30.10	
04	OVC	008				67	64	65	90	3	VR	29.15	30.09	
07	OVC	014				68	63	65	84	3	VR	29.22	30.16	
10	OVC	020				70	63	66	79	3	VR	29.21	30.16	
13	BKN	030				77	65	69	67	0	00	29.15	30.10	
16	SCT	036				82	66	71	58	8	20	29.09	30.01	
19	BKN	055				81	68	72	65	0	00	29.05	29.98	
22	OVC	035			HZ	76	69	71	79	0	00	29.07	30.00	

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
<b>SUNRISE: 0522      MAY 31      SUNSET: 1947</b>														
01	BKN	075			HZ	74	69	71	84	0	00	29.08	30.00	
04	CLR	NC			BR	72	68	69	87	0	00	29.07	29.99	
07	OVC	009			BR	72	68	69	87	3	VR	29.10	30.03	
10	CLR	NC				81	64	70	56	9	23	29.08	30.00	
13	SCT	060				87	61	70	42	11	25	29.03	29.95	
16	SCT	075				86	60	69	42	10	26	29.01	29.93	
19	OVC	090				82	64	70	55	3	VR	29.01	29.93	
22	CLR	NC				76	66	69	71	3	23	29.03	29.95	

## 3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8

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

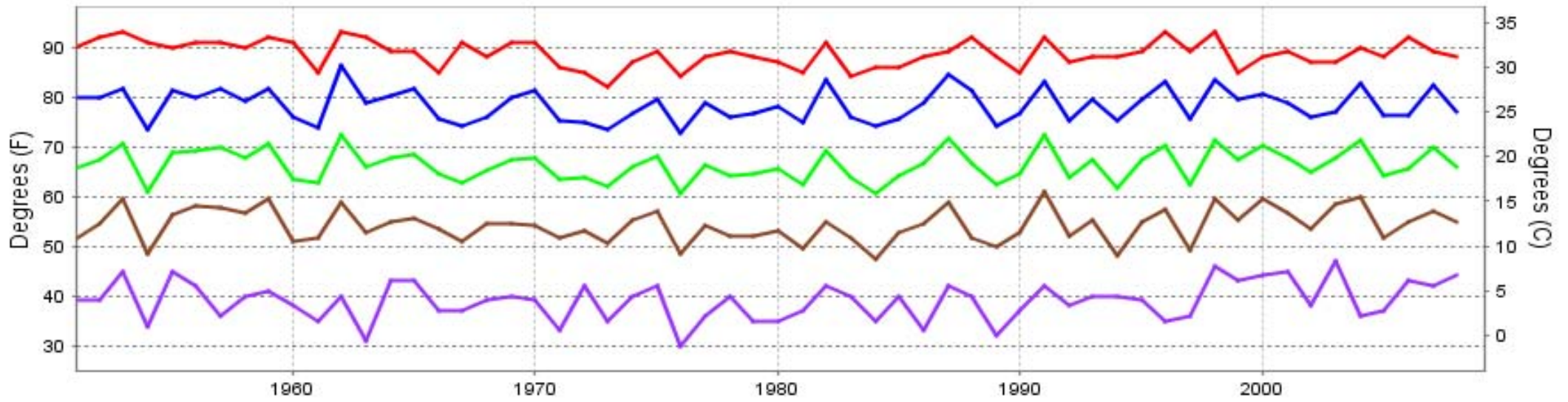
& = Original observation contained additional weather elements.

See page 3 for additional notes.

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			61	53	56	77	28.97	29.91	9.07	1	2	22
02			60	53	56	79	28.96	29.91	9.03	2	3	24
03			59	52	56	80	28.97	29.91	8.91	2	1	20
04			59	52	55	80	28.97	29.91	8.95	1	2	20
05			58	52	55	81	28.97	29.92	8.59	1	3	23
06			57	52	54	82	28.99	29.93	8.25	1	4	24
07			59	52	55	79	29.00	29.95	8.65	2	2	23
08			62	53	57	73	29.01	29.95	8.93	4	1	23
09			65	52	58	65	29.01	29.96	9.42	4	3	25
10			67	52	58	60	29.01	29.96	9.27	5	2	24
11			70	51	59	54	29.01	29.95	9.52	5	3	25
12			71	51	60	52	28.99	29.94	9.58	6	4	26
13			72	51	60	50	28.98	29.92	9.71	6	4	26
14			74	52	61	49	28.97	29.91	9.50	6	4	26
15			75	52	62	48	28.95	29.89	9.55	5	5	26
16			75	51	61	47	28.94	29.88	9.44	6	3	26
17			75	51	61	47	28.94	29.88	9.56	7	3	26
18			73	51	61	50	28.94	29.88	9.18	5	4	26
19			72	52	60	53	28.94	29.89	9.15	3	2	25
20			69	53	60	60	28.95	29.89	9.35	2	2	22
21			67	53	59	65	28.96	29.90	9.48	2	2	22
22			65	54	59	69	28.97	29.91	9.34	1	2	23
23			63	54	58	73	28.97	29.91	9.03	1	3	23
24			62	54	58	76	28.97	29.91	9.14	1	4	23

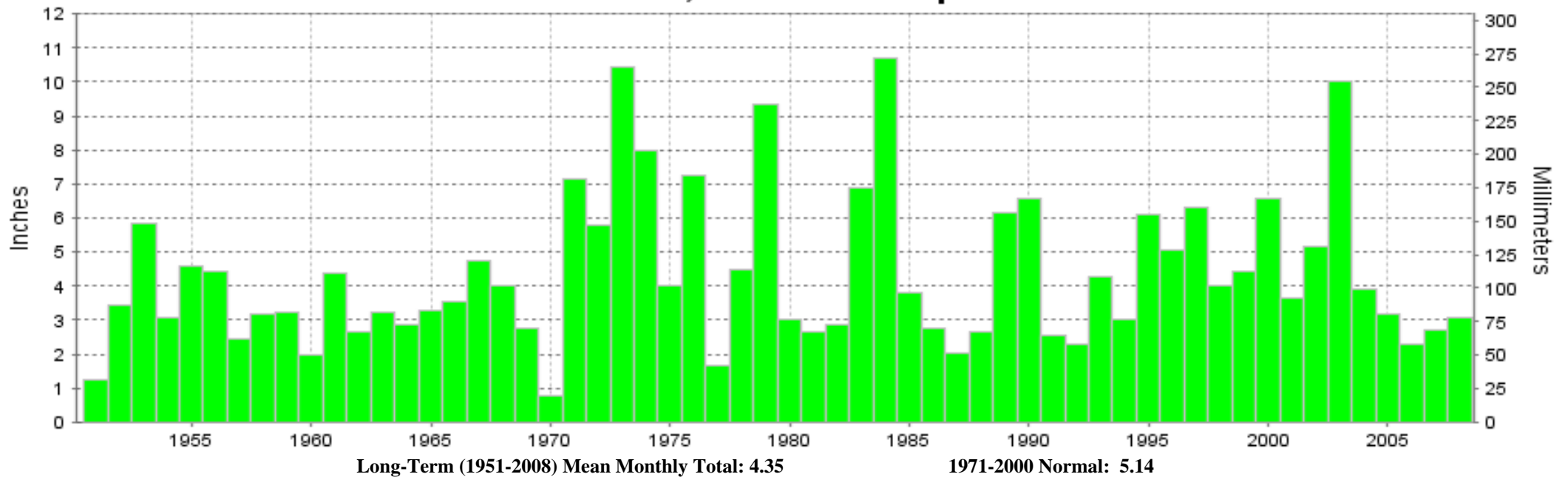
## OAK RIDGE, TN MAY Temperatures



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

Long-Term (1951-2008) Mean: 66.3  
1971-2000 Normal: 65.6

## OAK RIDGE, TN MAY Precipitation



Long-Term (1951-2008) Mean Monthly Total: 4.35

1971-2000 Normal: 5.14

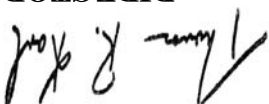




MAY 2008  
OAK RIDGE, TN

# LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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