



# MAY 2007 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 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
01	89	54	72	11	50	60	0	7				0.00	29.04	29.97	1.9	24	2.8	25	26	14	25	01		
02	87	58	73	11	55	62	0	8				0.00	29.00	29.94	0.4	24	3.2	15	27	12	19	02		
03	82	64	73	11	61	64	0	8	RA BR			0.05	29.05	29.99	0.4	02	2.2	24	25	13	26	03		
04	81	61	71	9	61	64	0	6	RA BR			0.77	29.06	30.01	0.9	13	1.9	41*	19	30*	21	04		
05	66	63	65	2	62	63	0	0	RA BR			0.79	29.08	30.04	1.0	23	1.4	12	22	7	20	05		
06	82	62	72	9	55	62	0	7	BR			0.00	29.15	30.11	2.6	05	3.8	17	08	12	06	06		
07	76	53	65	2	37	50	0	0				0.00	29.27	30.23	2.8	06	3.9	17	07	13	07	07		
08	82	46	64	1	39	52	1	0				0.00	29.16	30.11	1.4	06	2.9	17	06	12	07	08		
09	86	52	69	5	52	59	0	4				0.00	29.04	29.98	1.2	09	1.7	15	08	9	10	09		
10	87	61	74	10	58	64	0	9				0.00	28.98	29.92	1.0	21	2.6	14	25	10	25	10		
11	89	64	77	13	62	66	0	12	RA BR			0.07	28.97	29.91	0.4	26	1.8	28	26	17	27	11		
12	81	64	73	8	63	66	0	8	RA BR			0.86	29.02	29.96	0.7	08	1.0	36	04	24	07	12		
13	80	59	70	5	51	59	0	5	FG+ FG BR			0.00	29.11	30.07	2.1	05	3.4	17	03	12	05	13		
14	81	55	68	3	52	59	0	3				0.00	29.22	30.17	1.6	22	2.3	17	27	12	20	14		
15	82	59	71	6	54	61	0	6				0.00	29.19	30.12	3.1	22	4.3	21	21	13	18	15		
16	71	54	63	-3	55	59	2	0	RA BR HZ			0.17	29.03	29.99	1.4	28	3.4	17	21	12	20	16		
17	74	47	61	-5	42	51	4	0	RA			T	29.12	30.10	1.1	36	3.3	24	01	13	36	17		
18	67	47	57*	-9	40	49	8	0				0.00	29.23	30.21	2.6	03	4.3	23	08	18	07	18		
19	75	42*	59	-7	40	49	6	0				0.00	29.26	30.24	0.6	07	1.5	14	06	10	08	19		
20	82	45	64	-3	42	52	1	0				0.00	29.19	30.15	0.3	15	1.6	18	20	10	23	20		
21	83	47	65	-2	43	54	0	0				0.00	29.17	30.13	0.3	19	0.6	10	07	6	17	21		
22	87	50	69	2	49	58	0	4				0.00	29.21	30.16	0.3	13	1.2	16	22	10	21	22		
23	86	58	72	4	55	62	0	7	RA BR HZ			0.01	29.31	30.27	0.6	13	1.4	22	11	15	12	23		
24	85	59	72	4	57	63	0	7	BR HZ			0.00	29.36	30.32	0.8	22	1.7	13	15	8	15	24		
25	86	61	74	6	55	63	0	9				0.00	29.33	30.26	0.3	14	1.3	12	09	8	07	25		
26	88	63	76	8	59	66	0	11				0.00	29.23	30.16	0.1	33	0.6	10	10	7	10	26		
27	87	67	77	8	61	67	0	12	BR HZ			0.00	29.20	30.13	1.1	22	2.1	15	22	9	21	27		
28	88	65	77*	8	60	66	0	12	RA BR HZ			T	29.21	30.15	0.6	29	1.9	14	18	10	16	28		
29	89*	62	76	7	58	65	0	11	BR			0.00	29.23	30.17	0.6	35	1.8	16	11	9	08	29		
30	88	60	74	5	56	64	0	9				0.00	29.21	30.14	0.4	20	1.1	14	19	10	19	30		
31	88	61	75	5	57	64	0	10	BR HZ			0.00	29.16		0.8	13	1.3	12	20	8	17	31		

82.4			56.9			69.7			☼	52.9		60.1		0.7		5.6		< MONTHLY AVERAGES   TOTALS >				2.72		29.15		30.10		0.1		10		2.2		< MONTHLY AVERAGES			
4.6			3.5			4.1				-----DEPARTURE FROM NORMAL -----																-2.42		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.56 DATE : 04-05										SEA LEVEL PRESSURE				DATE TIME													
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :				30.40				24 0853									
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :				29.83				11 1553									
HEATING :		22		-58		3530		-457		NUMBER OF		->		MAXIMUM TEMP >= 90 :		0		MINIMUM TEMP <= 32 :		0		PRECIPITATION >= 0.01 INCH :		7		PRECIPITATION >= 0.10 INCH :		4									
COOLING :		175		-80		243		127		DAYS WITH		THUNDERSTORMS		:		0		HEAVY FOG		:		:		1		SNOWFALL >= 1.0 INCH		:									

MAY 2007  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
MAY 2007

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				0.01	0.04	T	T					03	0.05	0.05	
04													04						0.65	0.12			T		04	0.77	0.77	
05	T	0.01	0.01	T	0.03	0.03	0.11	0.08	0.19	0.17	0.13	0.01	05	T	0.02	T								05	0.79	0.79		
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	0.07	0.07	
12													12		T	T									12	0.86	0.86	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16	0.14	0.01										16	0.17	0.17	
17													17												17	T	T	
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	0.01	0.01	
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	T	T	
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)												

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 2007

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							5.00	10.00	
04							2.00	10.00	
05							1.00	10.00	
06							2.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							5.00	10.00	
12							1.50	10.00	
13							0.25	10.00	
14							10.00	10.00	
15							8.00	10.00	
16							1.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							8.00	10.00	
23							4.00	10.00	
24							3.00	10.00	
25							9.00	10.00	
26							9.00	10.00	
27							5.00	10.00	
28							3.00	10.00	
29							6.00	10.00	
30							7.00	10.00	
31							5.00	10.00	
MONTHLY AVGS							6.57	10.00	
<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		
1			8				17		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2007

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)			
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
														Observation Time (LST)
SUNRISE: 0545      MAY 01      SUNSET: 1923														
01	CLR	NC			10.00		61	52	56	72	0	00	29.07	30.00
04	CLR	NC			10.00		56	51	53	83	0	00	29.08	30.01
07	CLR	NC			10.00		57	52	54	83	0	00	29.10	30.04
10	CLR	NC			10.00		76	52	62	43	3	25	29.10	30.04
13	CLR	NC			10.00		87	47	64	25	7	25	29.05	29.98
16	CLR	NC			10.00		89	46	64	23	9	24	28.99	29.92
19	CLR	NC			10.00		84	46	62	27	5	23	28.96	29.90
22	CLR	NC			10.00		71	53	61	53	0	00	29.00	29.93
SUNRISE: 0544      MAY 02      SUNSET: 1924														
01	CLR	NC			10.00		65	54	59	68	0	00	29.01	29.93
04	CLR	NC			10.00		60	54	57	81	0	00	29.02	29.95
07	BKN	090			10.00		62	55	58	78	0	00	29.04	29.97
10	CLR	NC			10.00		80	55	65	42	6	19	29.05	29.97
13	BKN	080			10.00		84	54	66	36	7	VR	29.02	29.94
16	FEW	075			10.00		86	52	65	31	5	VR	28.96	29.89
19	BKN	100			10.00		82	52	64	35	3	26	28.97	29.90
22	CLR	NC			10.00		73	59	64	62	7	06	29.03	29.95
SUNRISE: 0543      MAY 03      SUNSET: 1925														
01	FEW	070			10.00		68	59	63	73	0	00	29.04	29.97
04	CLR	NC			10.00		65	59	61	81	3	07	29.02	29.95
07	CLR	NC			10.00		66	60	62	81	3	05	29.06	29.99
10	CLR	NC			10.00		73	60	65	64	3	VR	29.09	30.02
13	FEW	110			10.00		78	59	66	52	5	25	29.07	30.00
16	BKN	100			5.00	-RA	71	64	67	79	8	26	29.06	30.00
19	SCT	110			8.00		70	65	67	84	0	00	29.05	29.99
22	BKN	120			8.00		67	63	65	87	0	00	29.08	30.02
SUNRISE: 0542      MAY 04      SUNSET: 1926														
01	CLR	NC			8.00		64	61	62	90	3	06	29.06	29.99
04	CLR	NC			4.00	BR	62	60	61	93	0	00	29.08	30.02
07	CLR	NC			2.00	BR	61	60	60	97	0	00	29.10	30.06
10	FEW	021			9.00		72	61	65	68	0	00	29.12	30.06
13	SCT	041			9.00		79	60	67	52	0	00	29.07	30.00
16	CLR	NC			10.00		81	58	67	46	6	VR	29.01	29.94
19	BKN	090			5.00	BR	65	63	64	93	3	13	29.03	29.98
22	OVC	060			5.00	BR	65	63	64	93	0	00	29.08	30.02
SUNRISE: 0541      MAY 05      SUNSET: 1927														
01	BKN	046			3.00	-RA BR	65	63	64	93	0	00	29.09	30.02
04	OVC	085			2.50	BR	64	62	63	93	0	00	29.07	30.00
07	OVC	031			1.25	RA BR	63	61	62	93	0	00	29.10	30.05
10	OVC	017			1.00	RA BR	63	61	62	93	5	25	29.10	30.06
13	OVC	018			10.00	-RA	65	62	63	90	6	20	29.10	30.05
16	OVC	012			10.00		65	62	63	90	3	21	29.08	30.03
19	OVC	010			5.00	BR	65	62	63	90	0	00	29.08	30.03
22	BKN	014			4.00	BR	65	62	63	90	0	00	29.10	30.06
SUNRISE: 0540      MAY 06      SUNSET: 1927														
01	OVC	012			3.00	BR	64	62	63	93	0	00	29.12	30.07
04	OVC	010			4.00	BR	64	61	62	90	0	00	29.13	30.07
07	OVC	004			2.00	BR	64	62	63	93	3	07	29.15	30.11
10	OVC	031			10.00		70	60	64	71	8	05	29.19	30.14
13	FEW	049			10.00		77	58	65	52	6	VR	29.18	30.12
16	CLR	NC			10.00		81	50	63	34	9	07	29.13	30.07
19	CLR	NC			10.00		76	47	60	36	3	VR	29.14	30.09
22	CLR	NC			10.00		67	45	55	45	5	05	29.23	30.17
SUNRISE: 0539      MAY 07      SUNSET: 1928														
01	CLR	NC			10.00		62	45	53	54	6	05	29.26	30.21
04	SCT	050			10.00		57	35	47	44	5	04	29.30	30.25
07	CLR	NC			10.00		55	31	44	40	5	04	29.35	30.31
10	CLR	NC			10.00		62	34	49	35	5	16	29.35	30.31
13	CLR	NC			10.00		69	39	54	34	5	VR	29.29	30.25
16	CLR	NC			10.00		76	32	54	20	9	07	29.22	30.17
19	CLR	NC			10.00		73	33	53	23	5	08	29.18	30.14
22	CLR	NC			10.00		59	41	50	51	0	00	29.21	30.18
SUNRISE: 0538      MAY 08      SUNSET: 1929														
01	CLR	NC			10.00		51	43	47	74	0	00	29.19	30.16
04	CLR	NC			10.00		47	43	45	86	0	00	29.20	30.16
07	CLR	NC			10.00		50	45	48	83	0	00	29.23	30.19
10	CLR	NC			10.00		68	38	53	33	3	VR	29.22	30.19
13	CLR	NC			10.00		77	34	55	21	8	06	29.16	30.12
16	CLR	NC			10.00		80	29	55	15	7	VR	29.10	30.06
19	CLR	NC			10.00		78	34	56	20	0	00	29.08	30.03
22	CLR	NC			10.00		62	45	53	54	0	00	29.09	30.04
SUNRISE: 0537      MAY 09      SUNSET: 1930														
01	CLR	NC			10.00		56	47	51	72	0	00	29.06	30.00
04	CLR	NC			10.00		53	47	50	80	0	00	29.08	30.02
07	CLR	NC			10.00		56	49	52	78	0	00	29.12	30.06
10	CLR	NC			10.00		73	55	62	53	6	VR	29.12	30.06
13	CLR	NC			10.00		82	53	65	37	0	00	29.05	29.99
16	CLR	NC			10.00		86	51	65	30	7	10	28.98	29.92
19	CLR	NC			10.00		82	51	64	34	5	07	28.96	29.90
22	CLR	NC			10.00		69	57	62	66	0	00	29.00	29.93
SUNRISE: 0536      MAY 10      SUNSET: 1931														
01	CLR	NC			10.00		65	56	60	73	0	00	29.02	29.95
04	CLR	NC			10.00		62	56	59	81	0	00	29.01	29.94
07	BKN	100			10.00		64	57	60	78	0	00	29.04	29.97
10	SCT	085			10.00		76	57	64	52	7	25	29.05	29.98
13	CLR	NC			10.00		83	56	66	40	6	VR	29.01	29.93
16	CLR	NC			10.00		86	57	68	37	3	22	28.94	29.86
19	SCT	090			10.00		84	57	67	40	3	19	28.91	29.84
22	CLR	NC			10.00		74	62	66	66	0	00	28.97	29.90
SUNRISE: 0535      MAY 11      SUNSET: 1932														
01	SCT	100			10.00		68	62	64	81	0	00	28.97	29.90
04	BKN	110			10.00		67	62	64	84	0	00	28.98	29.90
07	CLR	NC			6.00	BR	66	62	64	87	0	00	29.00	29.93
10	CLR	NC			10.00		79	58	66	49	3	08	29.01	29.93
13	CLR	NC			10.00		86	58	68	39	5	VR	28.98	29.90
16	CLR	NC			10.00		86	57	68	37	0	00	28.92	29.83
19	BKN	070			6.00	-RA BR	67	64	65	90	3	VR	28.97	29.91
22	BKN	080			5.00	BR	68	66	67	93	5	20	29.01	29.94
SUNRISE: 0534      MAY 12      SUNSET: 1932														
01	CLR	NC			6.00	BR	68	65	66	90	0	00	29.01	29.93
04	OVC	110			4.00	BR	66	65	65	97	0	00	28.99	29.92
07	BKN	120			5.00	BR	67	64	65	90	0	00	29.02	29.96
10	BKN	080			9.00		71	64	67	79	0	00	29.05	29.99
13	CLR	NC			10.00		79	61	68	54	0	00	29.05	29.98
16	FEW	090			10.00		80	64	70	58	3	VR	29.01	29.94
19	CLR	NC			10.00		79	62	68	56	0	00	29.01	29.93
22	OVC	100			5.00	BR	66	63	64	90	0	00	29.07	30.01

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																	
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		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						
<b>SUNRISE: 0533</b>							<b>MAY 13</b>							<b>SUNSET: 1933</b>																
01	VV	001			0.25	FG	63	62	62	97	0	00	29.07	30.00	01	CLR	NC			10.00			46	41	44	83	0	00	29.29	30.27
04	BKN	005			0.25	FG	61	60	60	97	0	00	29.07	30.00	04	CLR	NC			10.00			43	40	42	89	0	00	29.29	30.27
07	CLR	NC			10.00		64	57	60	78	3	11	29.13	30.06	07	CLR	NC			10.00			46	42	44	86	0	00	29.32	30.30
10	CLR	NC			10.00		71	57	63	61	5	03	29.16	30.11	10	CLR	NC			10.00			63	39	51	41	7	05	29.34	30.31
13	CLR	NC			10.00		79	50	62	36	6	VR	29.14	30.09	13	CLR	NC			10.00			68	34	51	29	3	VR	29.28	30.25
16	CLR	NC			10.00		78	47	60	34	5	36	29.13	30.06	16	CLR	NC			10.00			74	37	55	26	3	VR	29.20	30.17
19	CLR	NC			10.00		75	42	57	31	3	01	29.13	30.06	19	CLR	NC			10.00			71	39	54	31	0	00	29.19	30.16
22	CLR	NC			10.00		66	41	53	40	3	05	29.17	30.12	22	CLR	NC			10.00			57	46	51	67	0	00	29.22	30.19
<b>SUNRISE: 0532</b>							<b>MAY 14</b>							<b>SUNSET: 1934</b>																
01	CLR	NC			10.00		61	43	52	52	0	00	29.18	30.13	01	CLR	NC			10.00			51	46	48	83	0	00	29.22	30.19
04	CLR	NC			10.00		58	45	51	62	0	00	29.18	30.13	04	CLR	NC			10.00			47	44	46	89	0	00	29.21	30.18
07	CLR	NC			10.00		58	48	53	70	0	00	29.25	30.20	07	CLR	NC			10.00			49	45	47	86	0	00	29.25	30.22
10	CLR	NC			10.00		71	51	60	49	5	24	29.28	30.23	10	CLR	NC			10.00			68	42	54	39	0	00	29.24	30.20
13	SCT	047			10.00		78	57	65	49	6	24	29.26	30.20	13	CLR	NC			10.00			76	42	58	30	5	VR	29.19	30.15
16	FEW	050			10.00		80	54	64	41	5	VR	29.21	30.16	16	CLR	NC			10.00			81	36	57	20	6	VR	29.13	30.09
19	CLR	NC			10.00		78	53	63	42	5	22	29.20	30.15	19	CLR	NC			10.00			77	39	57	26	3	13	29.10	30.06
22	CLR	NC			10.00		68	56	61	66	0	00	29.23	30.18	22	CLR	NC			10.00			60	47	53	62	0	00	29.15	30.11
<b>SUNRISE: 0532</b>							<b>MAY 15</b>							<b>SUNSET: 1935</b>																
01	CLR	NC			10.00		64	55	59	73	0	00	29.24	30.19	01	CLR	NC			10.00			52	46	49	80	0	00	29.15	30.11
04	CLR	NC			10.00		60	54	57	81	0	00	29.24	30.18	04	CLR	NC			10.00			48	44	46	86	0	00	29.16	30.12
07	CLR	NC			10.00		63	54	58	73	6	22	29.27	30.22	07	CLR	NC			10.00			51	45	48	80	0	00	29.22	30.19
10	CLR	NC			10.00		71	51	60	49	9	21	29.26	30.21	10	CLR	NC			10.00			71	47	58	43	0	00	29.22	30.18
13	CLR	NC			10.00		79	55	64	44	11	20	29.20	30.14	13	CLR	NC			10.00			78	40	58	26	0	00	29.18	30.14
16	CLR	NC			10.00		81	54	65	39	7	VR	29.10	30.05	16	CLR	NC			10.00			82	37	58	20	0	00	29.13	30.09
19	CLR	NC			10.00		79	54	64	42	6	21	29.07	30.00	19	CLR	NC			10.00			80	37	57	21	3	21	29.13	30.09
22	CLR	NC			10.00		73	54	62	52	0	00	29.10	30.03	22	CLR	NC			10.00			62	47	54	58	0	00	29.18	30.13
<b>SUNRISE: 0531</b>							<b>MAY 16</b>							<b>SUNSET: 1936</b>																
01	CLR	NC			10.00		67	56	61	68	0	00	29.07	30.00	01	CLR	NC			10.00			56	48	52	75	0	00	29.18	30.13
04	OVC	080			10.00		66	56	60	70	0	00	29.03	29.96	04	CLR	NC			10.00			52	48	50	86	0	00	29.18	30.14
07	OVC	080			8.00		66	57	61	73	3	VR	29.03	29.96	07	CLR	NC			10.00			56	50	53	80	0	00	29.25	30.20
10	SCT	060			6.00	HZ	67	62	64	84	5	VR	29.02	29.96	10	CLR	NC			10.00			74	51	61	45	0	00	29.26	30.21
13	OVC	042			1.00	RA	68	62	64	81	6	26	29.00	29.94	13	CLR	NC			10.00			85	44	62	24	5	09	29.23	30.17
16	SCT	036			10.00		67	53	59	61	8	34	29.04	29.98	16	CLR	NC			10.00			86	44	62	23	5	VR	29.18	30.13
19	SCT	060			10.00		65	47	55	52	8	35	29.07	30.01	19	CLR	NC			10.00			84	48	63	29	0	00	29.18	30.12
22	FEW	060			10.00		56	50	53	80	0	00	29.10	30.06	22	OVC	100			9.00			75	52	62	45	0	00	29.24	30.18
<b>SUNRISE: 0530</b>							<b>MAY 17</b>							<b>SUNSET: 1936</b>																
01	CLR	NC			10.00		57	44	50	62	6	36	29.10	30.06	01	CLR	NC			8.00			65	55	59	70	0	00	29.26	30.20
04	CLR	NC			10.00		51	44	48	77	0	00	29.10	30.07	04	CLR	NC			6.00	HZ		60	54	57	81	0	00	29.27	30.21
07	CLR	NC			10.00		51	46	48	83	0	00	29.15	30.13	07	FEW	090			4.00	HZ		61	55	58	81	0	00	29.35	30.29
10	CLR	NC			10.00		62	43	52	50	0	00	29.16	30.13	10	CLR	NC			10.00			78	53	63	42	3	VR	29.38	30.31
13	SCT	065			10.00		70	40	54	34	7	27	29.13	30.08	13	CLR	NC			10.00			83	53	65	36	5	VR	29.34	30.28
16	FEW	110			10.00		70	39	54	32	0	00	29.09	30.04	16	FEW	095			10.00			84	50	64	31	5	18	29.29	30.23
19	FEW	085			10.00		69	34	52	28	3	31	29.10	30.06	19	OVC	095			9.00	-RA		68	62	64	81	0	00	29.32	30.28
22	CLR	NC			10.00		57	43	50	60	7	VR	29.19	30.15	22	CLR	NC			4.00	BR		64	62	63	93	0	00	29.36	30.31
<b>SUNRISE: 0529</b>							<b>MAY 18</b>							<b>SUNSET: 1937</b>																
01	CLR	NC			10.00		52	45	48	77	0	00	29.21	30.17	01	CLR	NC			4.00	BR		62	60	61	93	0	00	29.36	30.30
04	CLR	NC			10.00		50	43	47	77	0	00	29.20	30.17	04	CLR	NC			4.00	BR		61	59	60	93	0	00	29.39	30.33
07	CLR	NC			10.00		52	43	48	72	3	VR	29.24	30.20	07	CLR	NC			3.00	BR		61	59	60	93	0	00	29.44	30.40
10	CLR	NC			10.00		59	38	49	46	7	05	29.26	30.23	10	CLR	NC			10.00			74	60	65	62	5	28	29.44	30.39
13	FEW	055			10.00		63	39	51	41	8	03	29.24	30.21	13	FEW	049			10.00			81	57	66	44	6	VR	29.40	30.34
16	FEW	065			10.00		65	36	51	34	8	03	29.22	30.19	16	FEW	065			10.00			85	54	66	35	0	00	29.32	30.26
19	CLR	NC			10.00		61	35	49	38	5	VR	29.25	30.22	19	CLR	NC			10.00			82	53	65	37	5	27	29.30	30.25
22	CLR	NC			10.00		52	41	47	66	0	00	29.29	30.27	22	CLR	NC			10.00			74	57	64	56	0	00	29.35	30.29

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MAY 2007

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
<b>SUNRISE: 0525      MAY 25      SUNSET: 1943</b>													
01	CLR	NC				69	55	61	61	0 00	29.36	30.30	
04	CLR	NC				63	55	58	75	0 00	29.35	30.29	
07	BKN	080				64	56	59	75	0 00	29.39	30.33	
10	CLR	NC				77	55	64	47	5 VR	29.40	30.33	
13	CLR	NC				81	53	64	38	7 15	29.33	30.27	
16	FEW	065				83	53	65	36	0 00	29.27	30.21	
19	CLR	NC				83	54	65	37	0 00	29.23	30.17	
22	OVC	075				72	59	64	64	0 00	29.28	30.22	
<b>SUNRISE: 0524      MAY 26      SUNSET: 1943</b>													
01	OVC	110				69	59	63	71	0 00	29.28	30.22	
04	CLR	NC				67	59	62	76	0 00	29.26	30.19	
07	CLR	NC				67	59	62	76	0 00	29.30	30.24	
10	CLR	NC				78	61	67	56	0 00	29.29	30.22	
13	FEW	060				85	57	67	39	0 00	29.23	30.16	
16	FEW	070				85	54	66	35	0 00	29.16	30.09	
19	SCT	100				84	58	68	41	0 00	29.15	30.09	
22	BKN	120				75	64	68	69	0 00	29.19	30.12	
<b>SUNRISE: 0524      MAY 27      SUNSET: 1944</b>													
01	OVC	080				73	63	67	71	0 00	29.19	30.12	
04	BKN	100				69	63	65	81	0 00	29.20	30.13	
07	CLR	NC			HZ	70	64	66	81	0 00	29.23	30.16	
10	FEW	075				78	60	67	54	8 19	29.24	30.17	
13	CLR	NC				85	60	69	43	6 21	29.21	30.14	
16	CLR	NC				86	56	67	36	5 23	29.16	30.09	
19	CLR	NC				84	59	68	43	0 00	29.15	30.08	
22	CLR	NC				72	63	66	73	0 00	29.20	30.14	
<b>SUNRISE: 0523      MAY 28      SUNSET: 1945</b>													
01	CLR	NC				69	62	65	79	0 00	29.21	30.14	
04	FEW	085			BR	66	62	64	87	0 00	29.22	30.15	
07	CLR	NC			HZ	67	62	64	84	0 00	29.26	30.19	
10	CLR	NC				78	57	65	49	7 VR	29.28	30.22	
13	CLR	NC				84	57	67	40	0 00	29.23	30.16	
16	CLR	NC				86	56	67	36	3 VR	29.17	30.11	
19	CLR	NC			HZ	84	58	68	41	0 00	29.15	30.09	
22	BKN	110				76	63	68	64	0 00	29.20	30.14	
<b>SUNRISE: 0523      MAY 29      SUNSET: 1946</b>													
01	CLR	NC				69	62	65	79	0 00	29.24	30.17	
04	CLR	NC				65	61	63	87	0 00	29.23	30.17	
07	CLR	NC				65	60	62	84	0 00	29.29	30.22	
10	CLR	NC				77	59	66	54	6 27	29.30	30.24	
13	CLR	NC				84	56	67	38	5 VR	29.26	30.19	
16	CLR	NC				87	54	67	32	3 VR	29.18	30.11	
19	CLR	NC				85	57	67	39	3 33	29.16	30.09	
22	BKN	100				76	60	66	58	0 00	29.21	30.14	
<b>SUNRISE: 0523      MAY 30      SUNSET: 1946</b>													
01	CLR	NC				70	56	62	61	0 00	29.22	30.15	
04	CLR	NC				62	58	60	87	0 00	29.21	30.15	
07	CLR	NC				66	58	61	76	0 00	29.26	30.20	
10	CLR	NC				78	56	65	47	0 00	29.26	30.19	
13	CLR	NC				85	52	65	32	0 00	29.22	30.15	
16	CLR	NC				88	51	66	28	5 VR	29.17	30.10	
19	CLR	NC				83	56	66	40	0 00	29.15	30.09	
22	CLR	NC				72	60	65	66	0 00	29.19	30.12	

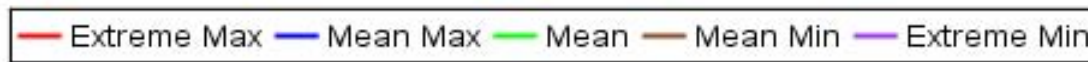
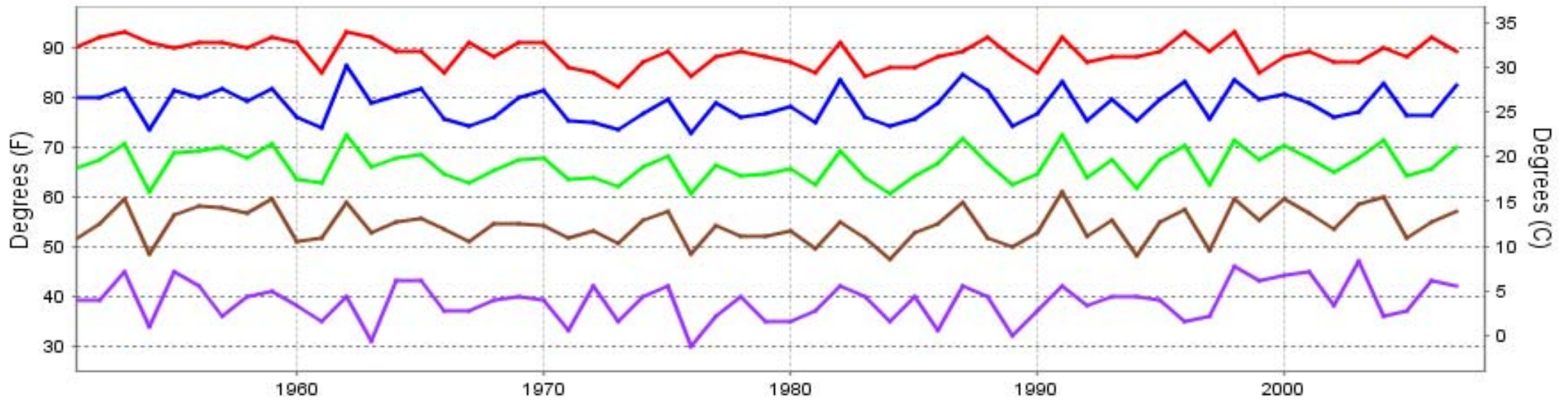
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL				
<b>SUNRISE: 0522      MAY 31      SUNSET: 1947</b>																	
01	CLR	NC				8.00					64	59	61	84	0 00	29.17	30.11
04	CLR	NC				6.00	BR				61	58	59	90	0 00	29.18	30.11
07	CLR	NC				6.00	BR				63	59	61	87	0 00	29.20	30.14
10	CLR	NC				10.00					81	54	65	39	0 00	29.20	30.14
13	CLR	NC				6.00	HZ				84	54	66	36	0 00	29.17	
16	CLR	NC				8.00					88	52	66	29	7 12	29.10	
19	BKN	085				6.00	HZ				86	54	66	33	3 26	29.10	
22	BKN	085				7.00					77	60	66	56	0 00	29.13	

**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

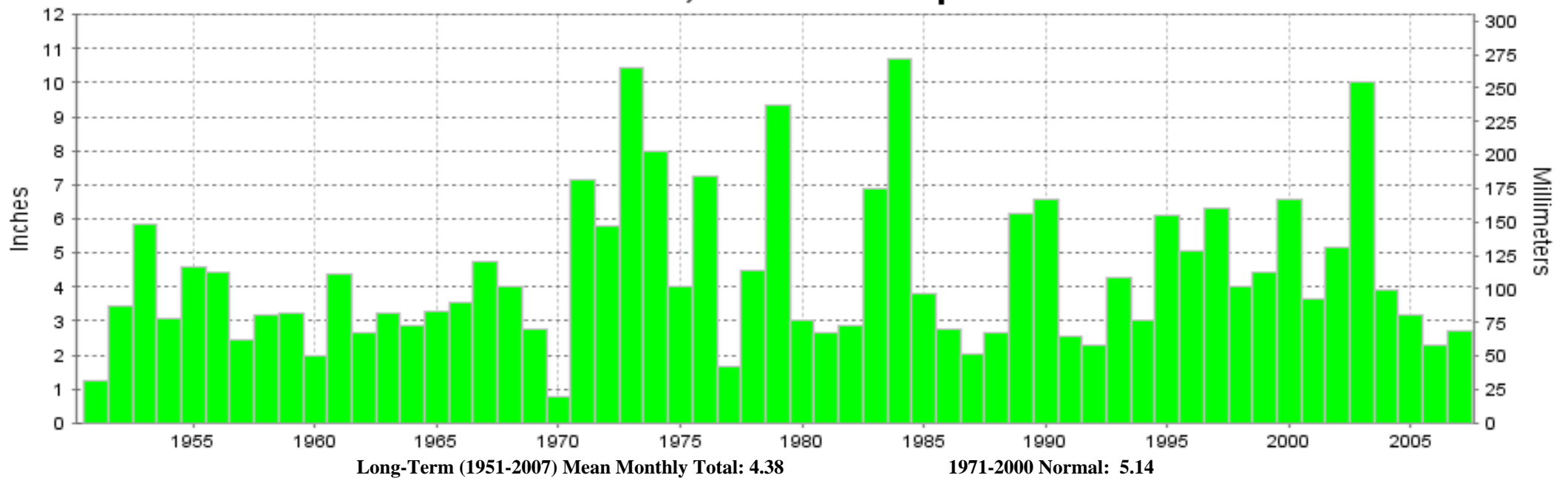
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		WIND SPEED (MPH)	DIRECTION		
							STATION	SEA LEVEL				
01			62	54	58	76	29.16	30.10	8.49	0	xxx	xx
02			61	55	58	79	29.15	30.09	8.27	0	xxx	xx
03			60	54	57	81	29.15	30.09	8.23	0	xxx	xx
04			59	54	56	83	29.16	30.10	8.09	0	xxx	xx
05			58	53	56	84	29.17	30.11	8.06	0	xxx	xx
06			58	53	55	84	29.18	30.13	7.65	0	xxx	xx
07			60	54	57	81	29.20	30.14	7.85	1	2	04
08			64	55	59	71	29.21	30.15	8.60	1	2	06
09			69	54	61	61	29.21	30.16	8.98	3	1	05
10			72	53	61	53	29.21	30.15	9.48	4	1	30
11			75	53	62	48	29.20	30.15	9.65	4	1	02
12			77	52	63	44	29.19	30.13	9.77	5	2	07
13			79	52	63	41	29.17	30.11	9.48	5	2	29
14			80	51	63	39	29.15	30.09	9.68	4	2	07
15			81	50	63	37	29.13	30.07	9.84	4	1	31
16			81	50	63	36	29.12	30.06	9.65	5	1	05
17			80	50	63	37	29.11	30.05	9.61	5	0	34
18			79	50	62	40	29.11	30.05	9.23	4	1	04
19			77	51	62	44	29.11	30.06	9.19	2	1	30
20			73	53	62	52	29.12	30.07	9.06	1	1	32
21			70	54	61	60	29.14	30.08	9.13	1	1	35
22			67	55	60	66	29.16	30.10	8.71	1	3	05
23			66	55	59	69	29.16	30.11	8.63	1	3	06
24			64	55	59	73	29.16	30.11	8.50	0	xxx	xx

## OAK RIDGE, TN MAY Temperatures



Long-Term (1951-2007) Mean: 66.3  
1971-2000 Normal: 65.6

## OAK RIDGE, TN MAY Precipitation



Long-Term (1951-2007) Mean Monthly Total: 4.38

1971-2000 Normal: 5.14





**MAY 2007  
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.*

*Thomas R. Karl*  
**DIRECTOR**

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Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

United States  
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