



AUGUST 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	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			
																		SPEED 20	DIR 21	SPEED 22	DIR 23			
01	92	70	81	3	69	72	0	16	RA BR			0.14	29.03	29.95	0.2	05	0.9	16	18	12	06	01		
02	92	70	81	3	68	71	0	16	FG BR HZ			0.00	29.08	30.01	0.7	20	1.3	20	36	12	35	02		
03	90	67	79	2	67	70	0	14	RA FG+ FG BR HZ			T	29.09	30.03	0.1	18	1.0	20	31	10	31	03		
04	92	66	79	2	67	71	0	14	BR HZ			0.00	29.10	30.03			0.3	9	33	7	31	04		
05	92	71	82	5	70	74	0	17	RA BR HZ			T	29.05	29.97	1.2	20	1.3	16	20	9	24	05		
06	95	77	86	9	71	75	0	21	HZ			0.00	29.02	29.93	0.8	24	1.6	14	29	9	28	06		
07	96	73	85	8	71	75	0	20	BR HZ			0.00	29.00	29.92	0.4	24	1.7	13	21	9	21	07		
08	99	76	88	11	71	76	0	23	RA BR HZ			T	28.98	29.90	0.1	25	1.5	14	27	9	20	08		
09	99	74	87	10	70	75	0	22	BR			0.00	28.98		0.2	27	1.0	14	27	9	21	09		
10	98	74	86	9	68	73	0	21				0.00	28.95	29.86	0.8	29	2.2	14	33	9	36	10		
11	94	70	82	5	65	70	0	17				0.00	29.02	29.95	1.3	03	3.2	16	06	10	05	11		
12	97	71	84	7	64	70	0	19				0.00	29.08	30.01	0.9	05	2.0	13	36	9	06	12		
13	94	66*	80	3	64	70	0	15	HZ			0.00	29.08	29.99	1.1	02	1.8	14	35	8	07	13		
14	95	69	82	5	64	70	0	17	BR HZ			0.00	29.03	29.95	0.6	06	1.1	14	06	9	06	14		
15	100	67	84	7	62	69	0	19				0.00	29.02	29.94	0.3	17	0.8	13	10	8	20	15		
16	103*	71	87	11	65	72	0	22	RA HZ			0.08	29.03	29.95	1.0	21	2.3	14	19	9	18	16		
17	97	74	86	10	67	73	0	21	RA BR HZ			T	29.07	29.99	1.3	34	2.1	17	30	10	31	17		
18	95	68	82	6	62	68	0	17	HZ			0.00	29.16	30.09	1.2	05	2.9	15	36	12	06	18		
19	96	67	82	6	65	71	0	17	HZ			0.00	29.14	30.06	1.8	22	3.0	18	25	14	20	19		
20	97	74	86	10	64	71	0	21	HZ			0.00	29.10	30.02	3.6	23	3.9	26*	24	15*	26	20		
21	96	75	86	10	65	72	0	21				0.00	29.13	30.04	1.5	26	2.7	20	28	13	29	21		
22	99	73	86	10	67	73	0	21				0.00	29.13	30.05	0.7	22	1.1	15	24	8	18	22		
23	102	72	87	12	65	72	0	22				0.00	29.09	30.00	0.3	30	0.8	17	28	12	28	23		
24	101	78	90*	15	66	73	0	25				0.00	29.05	29.97	2.3	22	3.7	21	05	14	09	24		
25	97	75	86	11	65	72	0	21				0.00	29.02	29.93	1.3	25	3.6	17	22	10	25	25		
26	93	72	83	8	67	72	0	18	RA BR			0.40	29.01	29.94	0.4	04	1.5	16	28	10	28	26		
27	97	71	84	9	67	72	0	19	RA			0.04	29.08	30.01	0.9	17	1.6	17	15	12	16	27		
28	95	74	85	10	68	73	0	20				0.00	29.14	30.06	1.3	22	2.6	15	26	10	27	28		
29	95	74	85	10	68	73	0	20	RA			T	29.13	30.05	1.0	18	2.5	14	06	10	07	29		
30	84	73	79*	5	69	72	0	14	RA BR			0.05	29.07	29.98	1.2	09	1.6	14	07	9	06	30		
31	91	70	81	7	66	70	0	16	BR HZ			0.00	29.02	29.95	1.9	05	4.0	18	07	12	07	31		
95.6		71.7	83.7	☼	66.7	71.9	0.0	18.9	< MONTHLY AVERAGES TOTALS >			0.71	29.06	29.98	0.3	23	2.0	< MONTHLY AVERAGES						
8.4	6.5	7.5	<----- DEPARTURE FROM NORMAL ----->						-2.68	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 0.40 DATE : 26				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.15 18 1108							
TOTAL DEPARTURE									GREATEST SNOW DEPTH :				MINIMUM :				29.83 10 1753							
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 30		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 5							
TOTAL DEPARTURE									HEATING : 0 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 2									
TOTAL DEPARTURE									COOLING : 586 239		THUNDERSTORMS : 0		HEAVY FOG : 1		SNOWFALL >= 1.0 INCH :									
TOTAL DEPARTURE									0 0															
TOTAL DEPARTURE									1547 450															

AUGUST 2007
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 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	0.14	0.14	
02													02												02	0.00	0.00	
03													03												03	T	T	
04													04												04	0.00	0.00	
05													05												05	T	T	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	T	T	
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	0.08	0.08	
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	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.40	0.40	
27													27												27	0.04	0.04	
28													28												28	0.00	0.00	
29													29												29	T	T	
30													30												30	0.05	0.05	
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)	0.09	0.12	0.15	0.17	0.20	0.30	0.32	0.33	0.35	0.38	0.40	0.40
Ending Date	26	26	26	26	26	26	26	26	26	26	26	26
Ending Time (Hr/Min)	0310	0314	0319	0314	0319	0319	0319	0345	0413	0424	0424	0424

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 AUGUST 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							3.00	10.00	
02							2.00	10.00	
03							0.25	10.00	
04							3.00	6.00	
05							1.50	8.00	
06							5.00	9.00	
07							2.50	10.00	
08							4.00	10.00	
09							6.00	10.00	
10							10.00	10.00	
11							8.00	10.00	
12							9.00	10.00	
13							6.00	10.00	
14							1.75	10.00	
15							8.00	10.00	
16							2.00	10.00	
17							3.00	10.00	
18							6.00	10.00	
19							5.00	10.00	
20							5.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							9.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							7.00	10.00	
28							8.00	10.00	
29							8.00	10.00	
30							3.00	10.00	
31							4.00	7.00	
MONTHLY AVGS							5.61	9.68	
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				
1		10			12				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 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)		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		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
																												Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION
SUNRISE: 0544						AUG 01						SUNSET: 1943						SUNRISE: 0549						AUG 07						SUNSET: 1937					
01	CLR	NC			6.00	BR	73	69	70	87	0	00	29.03	29.95	01	CLR	NC			5.00	HZ	77	72	74	85	0	00	29.00	29.91						
04	CLR	NC			4.00	BR	71	69	70	93	0	00	29.02	29.93	04	CLR	NC			4.00	BR	74	71	72	90	0	00	29.00	29.91						
07	CLR	NC			3.00	BR	72	69	70	90	0	00	29.05	29.97	07	CLR	NC			2.50	BR	74	71	72	90	0	00	29.05	29.96						
10	CLR	NC			10.00		82	69	73	65	0	00	29.07	29.98	10	CLR	NC			5.00	HZ	86	73	77	65	3	17	29.07	29.97						
13	FEW	047			10.00		89	68	75	50	0	00	29.04	29.96	13	SCT	044			9.00		94	72	78	49	0	00	29.03	29.93						
16	BKN	065			10.00		91	66	74	44	3	VR	28.99	29.91	16	FEW	100			10.00		93	68	76	44	6	21	28.98	29.88						
19	CLR	NC			9.00		83	67	72	59	0	00	29.01	29.93	19	CLR	NC			9.00		92	69	76	47	3	31	28.96	29.87						
22	BKN	120			8.00		75	71	72	87	0	00	29.05	29.96	22	BKN	120			7.00		82	73	76	74	0	00	29.00	29.91						
SUNRISE: 0545						AUG 02						SUNRISE: 0549						AUG 08						SUNSET: 1936											
01	CLR	NC			5.00	BR	73	70	71	90	0	00	29.07	29.99	01	CLR	NC			6.00	HZ	79	73	75	82	0	00	28.99	29.89						
04	FEW	002			3.00	BR	71	69	70	93	0	00	29.07	29.98	04	CLR	NC			5.00	BR	76	72	73	87	0	00	28.98	29.89						
07	FEW	100			2.00	BR	71	69	70	93	0	00	29.10	30.03	07	BKN	100			4.00	HZ	78	73	75	85	0	00	29.01	29.92						
10							82	70	74	67	0	00	29.10	30.03	10	CLR	NC			10.00		89	72	77	57	0	00	29.03	29.93						
13	CLR	NC			8.00		89	67	74	48	0	00	29.09	30.01	13	SCT	055			10.00		94	69	76	44	5	VR	29.01	29.91						
16	CLR	NC			10.00		82	66	71	58	0	00	29.08	30.00	16	FEW	060			10.00		96	68	76	40	6	VR	28.97	29.88						
19	CLR	NC			10.00		81	65	70	58	5	20	29.09	30.01	19	CLR	NC			10.00		94	69	76	44	3	31	28.97	29.87						
22	CLR	NC			10.00		75	67	70	76	0	00	29.10	30.03	22	CLR	NC			10.00		82	73	76	74	0	00	29.00	29.91						
SUNRISE: 0546						AUG 03						SUNRISE: 0550						AUG 09						SUNSET: 1935											
01	CLR	NC			7.00		71	67	68	87	0	00	29.10	30.02	01	CLR	NC			10.00		78	72	74	82	0	00	28.98	29.88						
04	CLR	NC			5.00	BR	68	66	67	93	0	00	29.10	30.03	04	CLR	NC			8.00		74	71	72	90	0	00	28.99	29.90						
07	VV	001			0.25	FG	67	66	66	97	0	00	29.13	30.06	07	BKN	085			6.00	BR	75	71	72	87	0	00	29.04	29.95						
10	CLR	NC			8.00		79	68	72	69	0	00	29.14	30.07	10	CLR	NC			10.00		88	69	75	53	0	00	29.04	29.95						
13	CLR	NC			8.00		87	69	75	55	5	12	29.10	30.03	13	SCT	050			10.00		95	70	77	44	3	VR	29.02	29.92						
16	CLR	NC			4.00	HZ	89	66	73	47	0	00	29.06	29.98	16	FEW	070			10.00		98	66	76	35	0	00	28.95	29.85						
19	CLR	NC			10.00		81	63	69	54	0	00	29.06	29.99	19	CLR	NC			10.00		96	66	75	37	5	27	28.94	29.84						
22	CLR	NC			8.00		73	66	68	79	0	00	29.10	30.03	22	CLR	NC			10.00		85	71	75	63	0	00	28.98	29.88						
SUNRISE: 0546						AUG 04						SUNRISE: 0551						AUG 10						SUNSET: 1934											
01	CLR	NC			6.00	BR	70	66	67	87	0	00	29.10	30.02	01	CLR	NC			10.00		79	70	73	74	0	00	28.95	29.85						
04	CLR	NC			4.00	BR	67	65	66	93	0	00	29.10	30.03	04	CLR	NC			10.00		76	70	72	82	0	00	28.92	29.83						
07	CLR	NC			4.00	BR	68	65	66	90	0	00	29.13	30.07	07	CLR	NC			10.00		76	70	72	82	0	00	28.97	29.87						
10	CLR	NC			6.00	HZ	81	69	73	67	0	00	29.15	30.08	10	CLR	NC			10.00		88	71	76	57	5	24	29.00	29.90						
13	SCT	050			5.00	HZ	90	67	74	47	0	00	29.12	30.03	13	SCT	070			10.00		94	67	75	41	5	VR	28.97	29.87						
16	CLR	NC			5.00	HZ	90	64	73	42	0	00	29.08	30.00	16	CLR	NC			10.00		96	63	74	34	6	VR	28.92	29.83						
19	CLR	NC			5.00	HZ	88	67	74	50	0	00	29.06	29.98	19	CLR	NC			10.00		91	66	74	44	3	VR	28.93	29.84						
22	CLR	NC			4.00	HZ	78	70	73	77	0	00	29.09	30.01	22	CLR	NC			10.00		80	67	71	65	0	00	28.98	29.89						
SUNRISE: 0547						AUG 05						SUNRISE: 0552						AUG 11						SUNSET: 1933											
01	CLR	NC			3.00	BR	74	70	71	87	0	00	29.08	30.00	01	CLR	NC			10.00		76	67	70	74	0	00	28.97	29.88						
04	CLR	NC			2.50	BR	72	69	70	90	0	00	29.07	29.99	04	CLR	NC			10.00		72	67	69	84	0	00	28.98	29.89						
07	CLR	NC			1.50	BR	72	69	70	90	0	00	29.09	30.01	07	CLR	NC			8.00		72	67	69	84	0	00	29.03	29.94						
10	FEW	011			3.00	-RA	78	69	72	74	0	00	29.10	30.02	10	CLR	NC			10.00		85	68	73	57	7	VR	29.08	29.99						
13	CLR	NC			4.00	HZ	85	72	76	65	5	19	29.07	29.99	13	CLR	NC			10.00		90	60	70	37	6	VR	29.05	29.96						
16	CLR	NC			6.00	HZ	91	72	78	54	0	00	29.01	29.93	16	CLR	NC			10.00		93	62	72	36	6	35	29.01	29.92						
19	SCT	065			7.00		90	70	76	52	3	20	29.01	29.93	19	CLR	NC			10.00		87	62	71	43	6	01	29.05	29.96						
22	CLR	NC			7.00		82	72	75	72	0	00	29.02	29.94	22	CLR	NC			10.00		79	64	69	60	0	00	29.09	30.01						
SUNRISE: 0548						AUG 06						SUNRISE: 0553						AUG 12						SUNSET: 1932											
01	FEW	075			6.00	HZ	78	71	73	79	3	21	29.02	29.93	01	CLR	NC			9.00		73	65	68	76	0	00	29.08	29.99						
04	SCT	100			6.00	HZ	78	71	73	79	0	00	29.02	29.93	04	CLR	NC			9.00		72	64	67	76	0	00	29.09	30.00						
07	CLR	NC			5.00	HZ	77	71	73	82	0	00	29.06	29.97	07	CLR	NC			9.00		72	64	67	76	0	00	29.12	30.03						
10	CLR	NC			7.00		86	72	76	63	0	00	29.07	29.98	10	CLR	NC			10.00		84	63	70	49	7	06	29.13	30.06						
13	FEW	049			8.00		93	71	77	49	3	VR	29.05	29.95	13	CLR	NC			10.00		92	65	74	41	0	00	29.10	30.02						
16	CLR	NC			8.00		95	68	76	41	6	VR	29.00	29.91	16	CLR	NC			10.00		96	60	72	30	5	VR	29.07	29.98						
19	CLR	NC			8.00		92	69	76	47	3	28	28.99	29.90	19	CLR	NC			10.00		90	65	73	44	5	01	29.06	29.98						
22	CLR	NC			8.00		82	72	75	72	0	00	29.02	29.93	22	CLR	NC			10.00		78	67	71	69	0	00	29.10	30.02						

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 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)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0553 AUG 13 SUNSET: 1931													SUNRISE: 0558 AUG 19 SUNSET: 1923																
01	CLR	NC			10.00		72	65	68	79	0	00	29.10	30.01	01	CLR	NC			10.00		72	62	66	71	0	00	29.17	30.09
04	CLR	NC			8.00		67	63	65	87	0	00	29.09	30.00	04	CLR	NC			10.00		69	63	65	81	0	00	29.15	30.07
07	CLR	NC			7.00		70	64	66	81	0	00	29.12	30.03	07	CLR	NC			10.00		68	63	65	84	0	00	29.19	30.12
10	CLR	NC			10.00		84	64	71	51	5	06	29.12	30.03	10	CLR	NC			8.00		85	68	73	57	7	20	29.20	30.12
13	CLR	NC			10.00		91	62	72	38	0	00	29.10	30.01	13	FEW	049			6.00	HZ	94	67	75	41	9	21	29.15	30.07
16	CLR	NC			10.00		93	64	73	38	5	33	29.05	29.96	16	SCT	060			6.00	HZ	95	66	75	39	9	25	29.10	30.01
19	CLR	NC			10.00		89	65	73	45	0	00	29.02	29.94	19	CLR	NC			5.00	HZ	92	65	74	41	0	00	29.07	29.99
22	CLR	NC			8.00		80	68	72	67	0	00	29.04	29.96	22	CLR	NC			7.00		85	66	72	53	0	00	29.12	30.03
SUNRISE: 0554 AUG 14 SUNSET: 1929													SUNRISE: 0559 AUG 20 SUNSET: 1922																
01	CLR	NC			6.00	HZ	74	68	70	82	0	00	29.04	29.96	01	CLR	NC			6.00	HZ	79	67	71	67	0	00	29.12	30.03
04	CLR	NC			3.00	BR	71	68	69	90	0	00	29.04	29.95	04	CLR	NC			5.00	HZ	76	67	70	74	0	00	29.13	30.03
07	CLR	NC			1.75	BR	70	67	68	90	0	00	29.07	29.99	07	CLR	NC			5.00	HZ	76	66	69	71	0	00	29.15	30.07
10	CLR	NC			10.00		84	65	71	53	6	06	29.09	30.01	10	CLR	NC			8.00		85	66	72	53	6	25	29.16	30.07
13	CLR	NC			10.00		91	62	72	38	0	00	29.05	29.96	13	FEW	060			10.00		95	63	73	35	9	23	29.12	30.02
16	CLR	NC			10.00		93	60	71	33	5	VR	29.00	29.91	16	CLR	NC			10.00		96	59	72	29	9	22	29.08	29.98
19	CLR	NC			10.00		88	59	69	38	0	00	28.99	29.91	19	CLR	NC			10.00		93	60	71	33	6	23	29.07	29.98
22	CLR	NC			10.00		75	63	67	66	0	00	29.03	29.94	22	CLR	NC			10.00		84	62	70	48	0	00	29.10	30.01
SUNRISE: 0555 AUG 15 SUNSET: 1928													SUNRISE: 0560 AUG 21 SUNSET: 1921																
01	CLR	NC			10.00		72	63	66	73	0	00	29.02	29.93	01	CLR	NC			10.00		79	64	69	60	3	26	29.10	30.01
04	CLR	NC			10.00		69	63	65	81	0	00	29.02	29.93	04	OVC	070			10.00		76	65	69	69	0	00	29.12	30.02
07	CLR	NC			8.00		68	64	65	87	0	00	29.05	29.97	07	SCT	080			10.00		76	65	69	69	3	22	29.15	30.07
10	CLR	NC			10.00		84	63	70	49	0	00	29.07	29.98	10	FEW	090			10.00		89	67	74	48	6	22	29.17	30.09
13	CLR	NC			10.00		94	60	72	32	0	00	29.04	29.95	13	FEW	065			10.00		92	64	73	40	10	28	29.16	30.07
16	CLR	NC			10.00		99	53	70	21	3	VR	29.00	29.91	16	FEW	075			10.00		94	63	73	36	5	28	29.12	30.03
19	CLR	NC			10.00		94	57	70	29	0	00	29.00	29.91	19	CLR	NC			10.00		93	65	74	40	3	10	29.10	30.02
22	CLR	NC			10.00		81	65	70	58	0	00	29.04	29.96	22	CLR	NC			10.00		81	68	72	65	0	00	29.13	30.04
SUNRISE: 0556 AUG 16 SUNSET: 1927													SUNRISE: 0601 AUG 22 SUNSET: 1920																
01	CLR	NC			10.00		77	68	71	74	0	00	29.03	29.94	01	SCT	080			10.00		77	68	71	74	0	00	29.12	30.03
04	CLR	NC			8.00		72	67	69	84	0	00	29.04	29.94	04	CLR	NC			10.00		74	68	70	82	0	00	29.14	30.06
07	CLR	NC			2.00	HZ	72	67	69	84	0	00	29.08	29.99	07	BKN	110			10.00		74	69	71	84	0	00	29.19	30.11
10	CLR	NC			8.00		87	64	72	46	8	25	29.09	30.00	10	CLR	NC			10.00		89	68	75	50	0	00	29.20	30.12
13	CLR	NC			8.00		97	65	75	35	3	VR	29.07	29.97	13	SCT	095			10.00		95	65	75	37	0	00	29.15	30.07
16	CLR	NC			10.00		101	58	73	24	5	26	29.00	29.91	16	CLR	NC			10.00		98	63	74	32	6	22	29.10	30.01
19	CLR	NC			8.00		95	62	73	34	0	00	29.00	29.91	19	CLR	NC			10.00		95	64	74	36	0	00	29.09	30.00
22	CLR	NC			8.00		84	67	73	57	0	00	29.03	29.94	22	CLR	NC			10.00		83	68	73	61	0	00	29.12	30.02
SUNRISE: 0557 AUG 17 SUNSET: 1926													SUNRISE: 0601 AUG 23 SUNSET: 1918																
01	BKN	100			5.00	HZ	77	72	74	85	0	00	29.05	29.95	01	CLR	NC			10.00		77	68	71	74	0	00	29.12	30.02
04	CLR	NC			4.00	BR	74	72	73	94	0	00	29.05	29.95	04	CLR	NC			10.00		74	68	70	82	0	00	29.10	30.02
07	CLR	NC			4.00	HZ	76	71	73	85	0	00	29.08	29.98	07	CLR	NC			9.00		74	68	70	82	0	00	29.14	30.06
10	CLR	NC			7.00		83	70	74	65	0	00	29.12	30.03	10	CLR	NC			10.00		90	68	75	48	0	00	29.13	30.05
13	CLR	NC			10.00		97	61	73	30	7	VR	29.10	30.01	13	SCT	075			10.00		99	62	74	30	3	VR	29.09	30.00
16	CLR	NC			10.00		96	61	73	31	7	33	29.07	29.98	16	CLR	NC			10.00		100	60	73	27	3	29	29.05	29.96
19	CLR	NC			10.00		90	64	73	42	3	36	29.06	29.97	19	CLR	NC			10.00		96	61	73	31	0	00	29.03	29.94
22	CLR	NC			10.00		78	66	70	67	0	00	29.13	30.04	22	FEW	100			10.00		85	65	72	51	0	00	29.07	29.98
SUNRISE: 0557 AUG 18 SUNSET: 1925													SUNRISE: 0602 AUG 24 SUNSET: 1917																
01	CLR	NC			10.00		73	65	68	76	0	00	29.15	30.07	01	FEW	100			10.00		81	66	71	60	3	22	29.09	29.99
04	CLR	NC			9.00		71	64	67	79	0	00	29.15	30.06	04	CLR	NC			10.00		79	65	70	62	0	00	29.08	29.98
07	CLR	NC			6.00	HZ	70	64	66	81	3	05	29.19	30.12	07	CLR	NC			10.00		79	67	71	67	3	25	29.10	30.02
10	CLR	NC			10.00		82	64	70	55	7	VR	29.22	30.15	10	CLR	NC			10.00		87	69	75	55	6	VR	29.13	30.04
13	CLR	NC			10.00		91	62	72	38	6	VR	29.19	30.11	13	CLR	NC			10.00		96	67	76	39	7	28	29.07	29.97
16	CLR	NC			10.00		94	59	71	31	3	VR	29.14	30.06	16	BKN	075			10.00		99	64	75	32	6	VR	28.99	29.89
19	CLR	NC			10.00		86	58	68	39	3	VR	29.13	30.05	19	CLR	NC			10.00		91	64	73	41	10	20	28.99	29.90
22	CLR	NC			10.00		77	60	66	56	0	00	29.17	30.09	22	CLR	NC			10.00		84	65	71	53	0	00	29.06	29.97

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2007

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
SUNRISE: 0603 AUG 25 SUNSET: 1916														
01	OVC	100				80	66	71	62	5	VR	29.06	29.97	
04	CLR	NC				77	67	70	71	6	23	29.06	29.97	
07	CLR	NC				76	67	70	74	0	00	29.06	29.97	
10	CLR	NC				83	66	72	57	5	19	29.07	29.98	
13	CLR	NC				91	65	73	42	6	VR	29.04	29.94	
16	FEW	065				95	63	73	35	9	30	28.95	29.86	
19	CLR	NC				91	63	72	39	3	31	28.95	29.86	
22	FEW	110				83	66	72	57	0	00	28.97	29.88	
SUNRISE: 0604 AUG 26 SUNSET: 1914														
01	CLR	NC				79	67	71	67	0	00	28.98	29.89	
04	OVC	080			-RA BR	73	71	72	93	0	00	29.01	29.92	
07	BKN	110			BR	73	70	71	90	3	08	29.04	29.96	
10	CLR	NC				77	71	73	82	3	VR	29.08	29.99	
13	FEW	042				88	66	73	48	0	00	29.05	29.96	
16	SCT	060				92	63	73	38	7	07	28.99	29.90	
19	CLR	NC				88	63	71	43	0	00	29.00	29.91	
22	CLR	NC				79	67	71	67	0	00	29.05	29.97	
SUNRISE: 0604 AUG 27 SUNSET: 1913														
01	CLR	NC				75	68	70	79	0	00	29.06	29.98	
04	CLR	NC				72	68	69	87	0	00	29.09	30.00	
07	BKN	090				71	68	69	90	0	00	29.13	30.04	
10	CLR	NC				83	67	72	59	0	00	29.13	30.06	
13	CLR	NC				91	65	73	42	3	10	29.10	30.02	
16	SCT	070				95	63	73	35	0	00	29.05	29.96	
19	SCT	090				90	65	73	44	8	19	29.07	29.98	
22	OVC	110			-RA	78	72	74	82	3	25	29.13	30.05	
SUNRISE: 0605 AUG 28 SUNSET: 1912														
01	CLR	NC				77	69	72	76	3	22	29.14	30.06	
04	CLR	NC				74	70	71	87	0	00	29.14	30.06	
07	FEW	070				76	70	72	82	0	00	29.17	30.09	
10	FEW	080				85	70	75	61	5	VR	29.19	30.11	
13	SCT	045				91	68	75	47	8	21	29.16	30.08	
16	CLR	NC				94	64	74	37	3	VR	29.09	30.00	
19	FEW	095				85	66	72	53	3	20	29.10	30.02	
22	FEW	065				80	69	73	69	3	23	29.14	30.07	
SUNRISE: 0606 AUG 29 SUNSET: 1910														
01	CLR	NC				77	69	72	76	0	00	29.14	30.06	
04	SCT	120				74	69	71	84	3	24	29.16	30.08	
07	CLR	NC				74	69	71	84	3	19	29.18	30.10	
10	CLR	NC				84	70	74	63	5	21	29.18	30.10	
13	CLR	NC				90	65	73	44	3	VR	29.13	30.05	
16	CLR	NC				92	63	73	38	3	VR	29.08	29.99	
19	BKN	055				83	67	72	59	6	14	29.10	30.02	
22	CLR	NC				80	70	73	72	0	00	29.10	30.03	
SUNRISE: 0607 AUG 30 SUNSET: 1909														
01	SCT	110				75	71	72	87	0	00	29.10	30.01	
04	BKN	012			BR	73	71	72	93	0	00	29.09	30.00	
07	OVC	100			BR	74	71	72	90	3	06	29.10	30.02	
10	BKN	100				76	68	71	76	0	00	29.12	30.03	
13	FEW	095				78	69	72	74	0	00	29.09	30.01	
16	CLR	NC				82	66	71	58	6	06	29.01	29.93	
19	CLR	NC				81	68	72	65	5	14	29.01	29.93	
22	CLR	NC				75	69	71	82	0	00	29.02	29.94	

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	
SUNRISE: 0608 AUG 31 SUNSET: 1908															
01	CLR	NC				5.00	BR	72	69	70	90	0	00	29.02	29.95
04	CLR	NC				4.00	BR	71	67	68	87	0	00	29.01	29.93
07	CLR	NC				4.00	HZ	72	67	69	84	7	06	29.04	29.96
10	CLR	NC				6.00	HZ	80	66	71	62	5	VR	29.05	29.97
13	CLR	NC				6.00	HZ	88	66	73	48	6	VR	29.03	29.95
16	CLR	NC				7.00		89	64	72	44	3	VR	28.99	29.91
19	CLR	NC				6.00	HZ	83	64	71	53	6	02	29.01	29.93
22	CLR	NC				6.00	HZ	77	65	69	67	3	05	29.06	29.98

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.

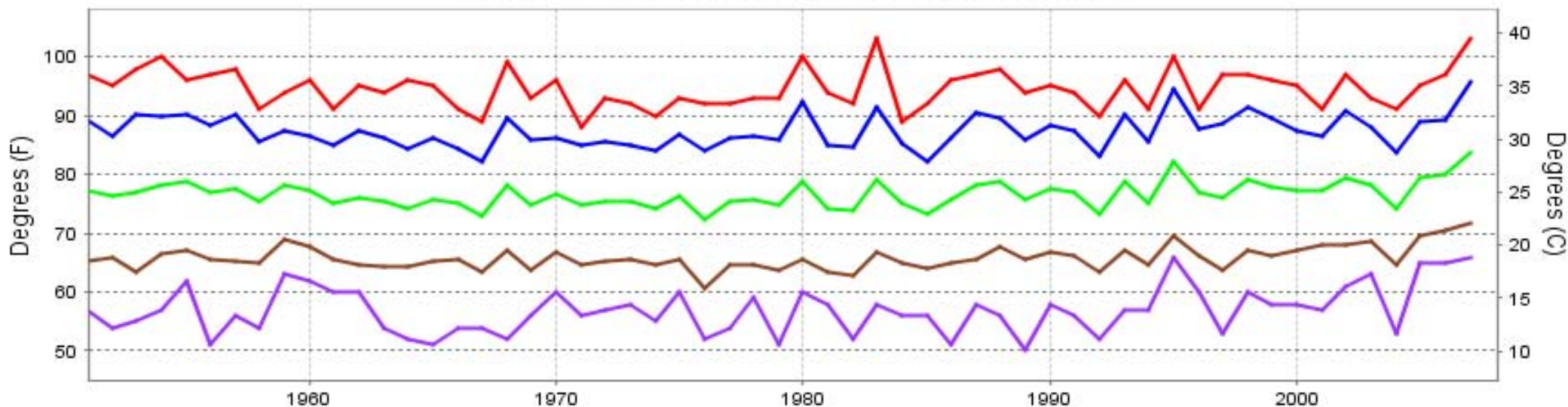
& = Original observation contained additional weather elements.

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			76	68	71	77	29.06	29.98	8.13	1	2	29
02			75	68	70	80	29.06	29.97	7.82	1	1	30
03			74	68	70	82	29.06	29.97	7.45	0	xxx	xx
04			73	68	70	84	29.06	29.98	7.11	0	xx	xx
05			72	68	69	85	29.07	29.99	6.81	0	xxx	xx
06			72	67	69	86	29.08	30.00	6.75	0	xxx	xx
07			73	68	70	84	29.10	30.01	5.90	1	1	07
08			76	68	71	76	29.11	30.02	7.35	1	2	08
09			80	68	72	67	29.11	30.03	8.60	2	1	08
10			84	68	73	59	29.11	30.03	8.83	3	1	28
11			87	67	74	53	29.11	30.02	8.87	3	4	27
12			89	67	74	48	29.10	30.01	8.94	3	1	29
13			92	66	74	43	29.08	29.99	9.03	4	3	28
14			93	65	74	40	29.06	29.97	9.23	4	3	27
15			94	64	74	38	29.05	29.96	9.26	4	2	28
16			94	63	73	38	29.03	29.94	9.23	4	3	27
17			93	63	73	38	29.02	29.94	9.29	4	0	29
18			91	64	73	41	29.02	29.93	9.29	4	0	01
19			89	64	73	45	29.03	29.94	9.23	3	1	28
20			85	66	72	53	29.04	29.96	9.19	1	1	30
21			82	67	72	60	29.06	29.97	9.19	0	xx	xx
22			80	68	72	67	29.07	29.98	8.97	0	xxx	xx
23			78	68	71	71	29.07	29.98	8.71	0	1	30
24			77	68	71	74	29.07	29.98	8.45	1	2	08

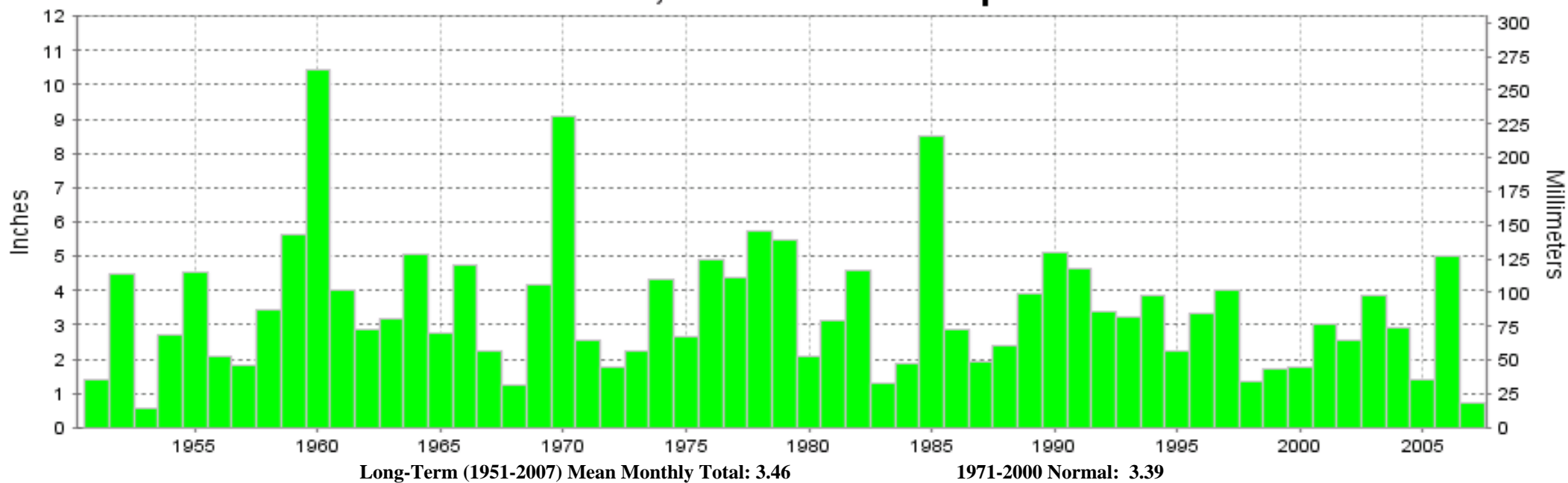
OAK RIDGE, TN AUGUST Temperatures



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

Long-Term (1951-2007) Mean: 76.6
1971-2000 Normal: 76.2

OAK RIDGE, TN AUGUST Precipitation



Long-Term (1951-2007) Mean Monthly Total: 3.46

1971-2000 Normal: 3.39



**AUGUST 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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