



AUGUST 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	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date																															
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																				
																			3-SEC		2-MIN																																		
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	89	72	81	3	69	73	0	16	BR HZ				0.00	28.94	29.87	0.8	23	1.2	10	21	8	20	01																																
02	95	72	84	6	69	73	0	19	BR HZ				0.00	28.92	29.83	2.0	26	3.1	18	22	10	22	02																																
03	91	67	79	2	62	68	0	14	BR				0.00	29.00	29.92	0.9	04	1.3	12	08	8	05	03																																
04	93	65	79	2	63	68	0	14					0.00	29.08	30.01	0.1	25	0.7	13	26	9	25	04																																
05	95*	69	82	5	68	72	0	17	BR HZ				0.00	29.10	30.02	1.1	25	2.3	15	27	10	28	05																																
06	94	73	84*	7	66	72	0	19	HZ				0.00	29.09	30.00	1.6	27	3.1	20	25	12	25	06																																
07	85	69	77	0	65	69	0	12	RA				0.08	29.00	29.91	0.6	30	1.6	22*	31	12	31	07																																
08	84	63	74	-3	55	63	0	9					0.00	28.97	29.91	0.9	35	2.1	15	36	9	33	08																																
09	86	59	73	-4	55	62	0	8					0.00	28.98	29.92	0.6	04	1.9	16	05	10	20	09																																
10	85	60	73	-4	57	64	0	8					0.00	28.97	29.90	0.7	26	1.5	13	28	8	27	10																																
11	84	62	73	-4	53	61	0	8					0.00	28.98	29.92	1.4	05	2.9	15	06	12	08	11																																
12	82	57*	70	-7	56	62	0	5					0.00	28.93	29.85	0.5	07	1.5	12	06	8	07	12																																
13	88	61	75	-2	59	65	0	10	BR				0.00	28.82	29.75	0.5	33	1.5	14	27	9	07	13																																
14	89	62	76	-1	56	64	0	11					0.00	28.91	29.85	0.6	28	1.6	12	26	8	28	14																																
15	87	61	74	-3	58	64	0	9	BR HZ				0.00	29.04	29.99	0.6	34	1.4	15	34	8	33	15																																
16	84	64	74	-2	57	63	0	9					0.00	29.11	30.04	1.2	05	1.9	15	36	10	36	16																																
17	90	59	75	-1	53	62	0	10					0.00	29.07	30.00	0.6	06	1.7	16	06	12	06	17																																
18	91	60	76	0	58	64	0	11					0.00	29.05	29.98	0.4	04	1.2	14	23	9	19	18																																
19	93	65	79	3	60	66	0	14	BR HZ				0.00	29.05	29.99	0.6	05	1.4	13	03	8	36	19																																
20	94	65	80	4	59	66	0	15					0.00	29.08	30.01	0.5	03	1.6	15	07	10	15	20																																
21	94	66	80	4	56	65	0	15	HZ				0.00	29.12	30.06	0.7	13	2.3	16	16	12	15	21																																
22	93	66	80	4	58	66	0	15	HZ				0.00	29.16	30.09	2.1	05	2.5	17	08	13	09	22																																
23	94	68	81	6	59	67	0	16					0.00	29.14	30.06	1.9	05	3.0	21	06	14*	06	23																																
24	88	66	77	2	61	67	0	12					0.00	29.05	29.97	0.1	02	1.1	9	25	6	26	24																																
25	78	71	75	0	68	70	0	10	RA BR				0.27	28.98	29.90	0.3	05	1.5	13	05	9	06	25																																
26	72	68	70*	-5	67	68	0	5	RA BR				2.27	28.87	29.80	2.0	05	3.8	16	05	10	04	26																																
27	78	68	73	-2	68	70	0	8	RA BR				0.38	28.84	29.79	0.4	23	1.4	12	24	8	25	27																																
28	87	67	77	2	64	68	0	12	RA					28.94	29.87	0.1	01	1.5	12	33	9	36	28																																
29	88	62	75	0	64	68	0	10	FG+ BR HZ				0.00	29.00	29.94	0.1	15	0.4	9	27	7	20	29																																
30	91	68	80	6	66	70	0	15	FG+ FG BR HZ				0.00	29.06	30.00	0.1	36	0.6	9	13	8	08	30																																
31	92	69	81	7	68	72	0	16	RA BR HZ				0.08	29.11	30.04	0.9	03	1.6	20	33	10	26	31																																
										88.2				65.3		76.8		☼	61.2		66.8		0.0		12.0		< MONTHLY AVERAGES TOTALS >				3.08		29.01		29.94		0.3		02		1.8		< MONTHLY AVERAGES												
										1.0		0.1		0.6		<-----DEPARTURE FROM NORMAL----->																-0.31		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																					
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 2.32 DATE : 25-26										SEA LEVEL PRESSURE										DATE		TIME																							
MONTHLY										GREATEST 24-HR SNOWFALL :										MAXIMUM :										30.14		22		0946																					
TOTAL DEPARTURE										GREATEST SNOW DEPTH :										MINIMUM :										29.71		13		1653																					
SEASON TO DATE										NUMBER OF -> DAYS WITH										MAXIMUM TEMP >= 90 :										14		MINIMUM TEMP <= 32 :										0		PRECIPITATION >= 0.01 INCH :										5	
HEATING :										MAXIMUM TEMP <= 32 :										THUNDERSTORMS :										0		HEAVY FOG :										2		PRECIPITATION >= 0.10 INCH :										3	
COOLING :																																																							
0										0										0										0		0										0		0										0	
372										25										1238										141																									

AUGUST 2008
 OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 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	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07	T	0.08	T										07												07	0.08	0.08	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25							0.09	0.07	T	0.02	T	0.01	25	0.01	T	T					T	0.02	0.03	0.02	25	0.27	0.27	
26	0.03	0.02	0.05	0.10	0.13	0.11	0.05	0.12	0.15	0.10	0.11	0.22	26	0.17	0.20	0.36	0.17	0.09	T	T	0.01	0.01	0.07	T	26	2.27	2.27	
27	T	0.01	0.03	0.15	0.04	T						0.01	27	0.14	T										27	0.38	0.38	
28		T	T										28												28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31										0.08		31	0.08	0.08	

* 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	0.16	0.21	0.22	0.28	0.34	0.41	0.58	0.69	0.71	0.74	0.81
Ending Date	26	26	26	26	26	26	26	26	26	26	26	26
Ending Time (Hr/Min)	1504	1506	1509	1509	1509	1517	1509	1509	1509	1517	1517	1509

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 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							6.00	10.00	
02							2.50	10.00	
03							6.00	10.00	
04							7.00	10.00	
05							4.00	10.00	
06							6.00	10.00	
07							6.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							3.00	10.00	
14							9.00	10.00	
15							4.00	10.00	
16							7.00	10.00	
17							10.00	10.00	
18							8.00	10.00	
19							4.00	10.00	
20							8.00	10.00	
21							4.00	10.00	
22							6.00	10.00	
23							9.00	10.00	
24							10.00	10.00	
25							2.50	10.00	
26							1.75	10.00	
27							2.50	10.00	
28							7.00	10.00	
29							0.25	10.00	
30							0.00	10.00	
31							3.00	10.00	
MONTHLY AVGS							6.02	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
2		8			14				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2008

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)		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		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0544 AUG 01 SUNSET: 1943															SUNRISE: 0549 AUG 07 SUNSET: 1937														
01	OVC	005			8.00		75	72	73	90	0	00	28.93	29.84	01	BKN	090			10.00	-RA	79	63	69	58	6	VR	29.07	29.98
04	OVC	005			6.00	BR	72	70	71	93	0	00	28.93	29.85	04	CLR	NC			10.00		70	66	67	87	0	00	29.01	29.93
07	OVC	005			6.00	BR	73	69	70	87	0	00	28.96	29.88	07	BKN	070			10.00		70	66	67	87	0	00	29.03	29.95
10	CLR	NC			10.00		81	69	73	67	0	00	29.00	29.91	10	CLR	NC			10.00		78	68	71	71	0	00	29.02	29.93
13	BKN	048			10.00		87	66	73	50	3	VR	28.98	29.89	13	SCT	070			10.00		84	67	73	57	0	00	29.00	29.91
16	CLR	NC			10.00		89	67	74	48	3	25	28.95	29.86	16	CLR	NC			10.00		83	65	71	55	0	00	28.95	29.87
19	CLR	NC			10.00		86	67	73	53	5	20	28.92	29.83	19	FEW	048			10.00		81	65	70	58	3	28	28.93	29.85
22	CLR	NC			8.00		79	71	74	77	0	00	28.97	29.88	22	CLR	NC			10.00		75	62	67	64	0	00	28.95	29.87
SUNRISE: 0545 AUG 02 SUNSET: 1942															SUNRISE: 0549 AUG 08 SUNSET: 1936														
01	CLR	NC			6.00	HZ	76	70	72	82	0	00	28.96	29.87	01	CLR	NC			10.00		72	59	64	64	0	00	28.95	29.87
04	CLR	NC			4.00	BR	73	69	70	87	0	00	28.91	29.83	04	CLR	NC			10.00		66	59	62	78	0	00	28.95	29.88
07	CLR	NC			4.00	HZ	75	70	72	85	0	00	28.95	29.86	07	CLR	NC			10.00		65	59	61	81	0	00	28.99	29.92
10	CLR	NC			10.00		83	71	75	67	6	23	28.94	29.85	10	CLR	NC			10.00		79	58	66	49	0	00	29.00	29.92
13	FEW	034			10.00		90	72	77	56	6	VR	28.90	29.81	13	SCT	065			10.00		81	54	65	39	7	36	29.00	29.92
16	FEW	050			10.00		94	66	75	40	6	27	28.86	29.77	16	FEW	065			10.00		84	51	64	32	7	VR	28.96	29.89
19	CLR	NC			10.00		89	68	75	50	5	28	28.88	29.79	19	CLR	NC			10.00		79	52	63	39	3	VR	28.96	29.89
22	CLR	NC			10.00		82	67	72	61	0	00	28.94	29.85	22	CLR	NC			10.00		67	55	60	66	0	00	29.00	29.93
SUNRISE: 0546 AUG 03 SUNSET: 1941															SUNRISE: 0550 AUG 09 SUNSET: 1935														
01	CLR	NC			10.00		74	66	69	76	0	00	28.97	29.88	01	CLR	NC			10.00		63	55	58	75	0	00	29.00	29.93
04	CLR	NC			8.00		69	66	67	90	0	00	28.95	29.86	04	CLR	NC			10.00		60	55	57	84	0	00	29.00	29.93
07	CLR	NC			7.00		69	65	66	87	0	00	29.00	29.92	07	SCT	080			10.00		61	56	58	84	0	00	29.03	29.97
10	CLR	NC			10.00		83	65	71	55	3	08	29.03	29.94	10	CLR	NC			10.00		77	57	65	50	6	06	29.03	29.97
13	CLR	NC			10.00		87	56	68	35	0	00	29.03	29.95	13	CLR	NC			10.00		82	53	64	37	0	00	28.98	29.91
16	CLR	NC			10.00		90	58	69	34	5	32	29.02	29.93	16	BKN	060			10.00		85	57	67	39	3	VR	28.95	29.88
19	CLR	NC			10.00		85	62	70	46	3	36	29.00	29.92	19	SCT	075			10.00		80	54	64	41	0	00	28.96	29.89
22	CLR	NC			10.00		75	63	67	66	0	00	29.04	29.96	22	FEW	070			10.00		70	58	63	66	0	00	28.98	29.91
SUNRISE: 0546 AUG 04 SUNSET: 1940															SUNRISE: 0551 AUG 10 SUNSET: 1934														
01	CLR	NC			10.00		70	63	66	79	0	00	29.07	29.98	01	SCT	075			10.00		67	58	62	73	0	00	28.98	29.91
04	CLR	NC			10.00		67	63	65	87	0	00	29.07	29.98	04	SCT	075			10.00		63	58	60	84	0	00	28.97	29.90
07	CLR	NC			8.00		67	63	65	87	0	00	29.09	30.02	07	CLR	NC			10.00		62	57	59	84	0	00	29.00	29.93
10	CLR	NC			10.00		81	62	69	53	3	VR	29.13	30.05	10	CLR	NC			10.00		77	56	64	48	0	00	29.00	29.93
13	CLR	NC			10.00		88	60	70	39	0	00	29.12	30.04	13	CLR	NC			10.00		82	55	65	40	6	25	28.98	29.91
16	CLR	NC			10.00		93	59	71	32	0	00	29.08	29.99	16	CLR	NC			10.00		84	54	66	36	0	00	28.94	29.87
19	CLR	NC			10.00		88	62	71	42	0	00	29.08	30.00	19	CLR	NC			10.00		81	57	66	44	3	25	28.94	29.87
22	CLR	NC			10.00		79	67	71	67	0	00	29.07	29.99	22	BKN	100			10.00		73	60	65	64	0	00	28.97	29.90
SUNRISE: 0547 AUG 05 SUNSET: 1939															SUNRISE: 0552 AUG 11 SUNSET: 1933														
01	CLR	NC			8.00		72	66	68	82	0	00	29.12	30.03	01	CLR	NC			10.00		69	61	64	76	0	00	28.98	29.90
04	CLR	NC			6.00	BR	70	66	67	87	0	00	29.10	30.01	04	CLR	NC			10.00		66	56	60	70	3	08	28.98	29.91
07	CLR	NC			4.00	HZ	71	66	68	84	0	00	29.13	30.04	07	CLR	NC			10.00		64	56	59	75	0	00	29.01	29.94
10	CLR	NC			10.00		83	67	72	59	7	22	29.12	30.03	10	CLR	NC			10.00		75	51	61	43	5	07	29.04	29.96
13	CLR	NC			10.00		92	68	75	45	3	VR	29.13	30.04	13	CLR	NC			10.00		81	49	62	33	7	VR	29.01	29.93
16	FEW	070			10.00		93	67	75	43	6	26	29.09	30.00	16	CLR	NC			10.00		84	50	64	31	9	05	28.96	29.89
19	CLR	NC			9.00		90	69	75	50	3	32	29.08	30.00	19	CLR	NC			10.00		78	52	63	40	3	VR	28.95	29.89
22	CLR	NC			8.00		82	72	75	72	0	00	29.05	29.96	22	CLR	NC			10.00		68	54	60	61	0	00	28.99	29.92
SUNRISE: 0548 AUG 06 SUNSET: 1938															SUNRISE: 0553 AUG 12 SUNSET: 1932														
01	BKN	060			8.00		79	71	74	77	0	00	29.10	30.01	01	CLR	NC			10.00		63	55	58	75	0	00	28.98	29.91
04	CLR	NC			10.00		78	67	71	69	3	VR	29.10	30.01	04	CLR	NC			10.00		59	55	57	87	0	00	28.96	29.89
07	CLR	NC			10.00		76	66	69	71	0	00	29.13	30.05	07	CLR	NC			10.00		62	55	58	78	3	06	28.97	29.91
10	CLR	NC			10.00		83	67	72	59	5	VR	29.13	30.04	10	CLR	NC			10.00		73	54	62	52	5	VR	28.97	29.90
13	CLR	NC			10.00		91	65	73	42	3	VR	29.12	30.02	13	CLR	NC			10.00		81	53	64	38	6	19	28.92	29.85
16	CLR	NC			10.00		92	64	73	40	8	27	29.06	29.97	16	CLR	NC			10.00		81	55	65	41	0	00	28.87	29.80
19	CLR	NC			10.00		88	64	72	45	3	31	29.03	29.95	19	CLR	NC			10.00		77	59	66	54	0	00	28.86	29.79
22	CLR	NC			10.00		79	67	71	67	0	00	29.05	29.96	22	CLR	NC			10.00		71	61	65	71	0	00	28.86	29.79

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2008

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
SUNRISE: 0553 AUG 13 SUNSET: 1931														
01	CLR	NC			10.00		67	61	63	81	0	00	28.85	29.78
04	SCT	090			10.00	BR	63	60	61	90	0	00	28.82	29.75
07	OVC	003			3.00		62	60	61	93	0	00	28.83	29.76
10	CLR	NC			10.00		77	62	67	60	0	00	28.83	29.76
13	FEW	095			10.00		85	54	66	35	0	00	28.81	29.73
16	BKN	110			10.00		85	56	67	37	3	VR	28.78	29.71
19	CLR	NC			10.00		84	57	67	40	5	30	28.80	29.73
22	SCT	090			10.00		75	60	66	60	0	00	28.86	29.78
SUNRISE: 0554 AUG 14 SUNSET: 1929														
01	OVC	080			10.00		73	59	64	62	0	00	28.87	29.79
04	CLR	NC			10.00		64	59	61	84	0	00	28.87	29.79
07	CLR	NC			10.00		64	58	60	81	0	00	28.92	29.85
10	CLR	NC			10.00		78	57	65	49	3	07	28.95	29.87
13	BKN	070			10.00		85	53	65	33	0	00	28.94	29.86
16	CLR	NC			10.00		88	51	66	28	3	VR	28.92	29.84
19	SCT	100			10.00		84	54	66	36	3	VR	28.93	29.86
22	CLR	NC			10.00		73	58	64	59	0	00	28.98	29.91
SUNRISE: 0555 AUG 15 SUNSET: 1928														
01	CLR	NC			8.00		67	59	62	76	0	00	29.00	29.93
04	CLR	NC			6.00	HZ	64	58	60	81	0	00	29.01	29.94
07	CLR	NC			4.00	HZ	63	58	60	84	0	00	29.05	29.98
10	CLR	NC			10.00		77	60	66	56	5	VR	29.07	30.00
13	SCT	075			10.00		86	56	67	36	5	34	29.07	29.99
16	FEW	060			10.00		84	57	67	40	0	00	29.05	29.98
19	CLR	NC			10.00		79	58	66	49	0	00	29.06	30.00
22	CLR	NC			10.00		72	60	65	66	0	00	29.12	30.05
SUNRISE: 0556 AUG 16 SUNSET: 1927														
01	CLR	NC			10.00		67	60	63	78	0	00	29.12	30.03
04	CLR	NC			9.00		65	59	61	81	0	00	29.10	30.03
07	CLR	NC			7.00		66	60	62	81	0	00	29.13	30.07
10	CLR	NC			10.00		78	59	66	52	3	VR	29.15	30.09
13	CLR	NC			10.00		82	55	65	40	3	VR	29.13	30.06
16	CLR	NC			10.00		83	54	65	37	3	VR	29.08	30.01
19	CLR	NC			10.00		77	54	63	45	0	00	29.08	30.01
22	FEW	070			10.00		68	55	60	63	0	00	29.12	30.04
SUNRISE: 0557 AUG 17 SUNSET: 1926														
01	BKN	070			10.00		64	54	58	70	0	00	29.10	30.04
04	CLR	NC			10.00		61	54	57	78	0	00	29.10	30.03
07	CLR	NC			10.00		61	55	58	81	0	00	29.12	30.06
10	CLR	NC			10.00		79	54	64	42	3	VR	29.12	30.05
13	CLR	NC			10.00		86	52	65	31	5	VR	29.07	29.99
16	CLR	NC			10.00		87	50	65	28	3	VR	29.00	29.93
19	CLR	NC			10.00		83	52	64	34	3	36	29.01	29.94
22	CLR	NC			10.00		72	54	61	53	0	00	29.04	29.97
SUNRISE: 0557 AUG 18 SUNSET: 1925														
01	CLR	NC			10.00		66	55	60	68	0	00	29.07	29.99
04	CLR	NC			10.00		61	55	58	81	0	00	29.05	29.98
07	SCT	080			10.00		61	55	58	81	0	00	29.08	30.02
10	FEW	085			10.00		77	58	65	52	3	06	29.10	30.03
13	FEW	049			10.00		86	60	69	42	6	VR	29.06	29.98
16	BKN	070			10.00		89	55	68	32	6	VR	29.01	29.93
19	CLR	NC			10.00		85	58	68	40	0	00	29.00	29.93
22	BKN	100			9.00		76	61	67	60	0	00	29.04	29.96
SUNRISE: 0558 AUG 19 SUNSET: 1923														
01	CLR	NC			7.00		71	62	65	73	0	00	29.06	29.97
04	CLR	NC			6.00	HZ	67	62	64	84	0	00	29.06	29.98
07	CLR	NC			4.00	HZ	67	62	64	84	0	00	29.09	30.01
10	CLR	NC			10.00		81	62	69	53	3	18	29.10	30.03
13	FEW	085			9.00		90	59	70	35	5	35	29.08	29.99
16	CLR	NC			10.00		91	54	68	29	6	08	29.03	29.95
19	CLR	NC			10.00		85	56	67	37	3	VR	29.03	29.96
22	CLR	NC			10.00		76	58	65	54	0	00	29.07	29.98
SUNRISE: 0559 AUG 20 SUNSET: 1922														
01	CLR	NC			10.00		71	57	63	61	0	00	29.08	29.99
04	CLR	NC			10.00		68	58	62	71	0	00	29.09	30.00
07	CLR	NC			8.00		66	59	62	78	0	00	29.13	30.05
10	CLR	NC			10.00		81	58	67	46	3	02	29.13	30.06
13	SCT	070			10.00		91	57	69	32	6	18	29.10	30.01
16	CLR	NC			10.00		93	57	70	30	3	VR	29.05	29.97
19	CLR	NC			10.00		88	59	69	38	0	00	29.04	29.96
22	BKN	085			10.00		79	61	68	54	0	00	29.09	30.01
SUNRISE: 0560 AUG 21 SUNSET: 1921														
01	CLR	NC			8.00		72	62	66	71	0	00	29.10	30.02
04	CLR	NC			6.00	HZ	67	61	63	81	0	00	29.10	30.03
07	CLR	NC			4.00	HZ	67	61	63	81	0	00	29.15	30.08
10	CLR	NC			10.00		83	61	69	48	5	VR	29.18	30.11
13	CLR	NC			10.00		91	49	66	24	5	18	29.15	30.07
16	CLR	NC			10.00		93	51	67	24	7	20	29.10	30.02
19	CLR	NC			10.00		89	49	65	25	0	00	29.09	30.01
22	CLR	NC			10.00		77	56	64	48	0	00	29.15	30.07
SUNRISE: 0601 AUG 22 SUNSET: 1920														
01	CLR	NC			10.00		70	57	62	64	0	00	29.16	30.09
04	CLR	NC			9.00		66	58	61	76	0	00	29.15	30.08
07	CLR	NC			6.00	HZ	68	59	63	73	0	00	29.20	30.12
10	CLR	NC			9.00		81	62	69	53	7	VR	29.20	30.13
13	CLR	NC			9.00		90	57	69	33	9	08	29.16	30.09
16	CLR	NC			10.00		90	55	68	31	0	00	29.13	30.06
19	CLR	NC			10.00		87	56	68	35	0	00	29.13	30.06
22	CLR	NC			8.00		77	57	65	50	0	00	29.16	30.09
SUNRISE: 0601 AUG 23 SUNSET: 1918														
01	CLR	NC			9.00		73	59	64	62	0	00	29.18	30.10
04	CLR	NC			10.00		70	59	63	68	0	00	29.18	30.10
07	FEW	120			10.00		71	60	64	68	0	00	29.20	30.12
10	CLR	NC			10.00		80	61	68	52	5	05	29.19	30.11
13	CLR	NC			10.00		89	59	70	36	5	VR	29.14	30.07
16	SCT	070			10.00		91	57	69	32	7	07	29.08	29.99
19	CLR	NC			10.00		86	61	70	43	0	00	29.05	29.97
22	CLR	NC			10.00		80	58	66	47	0	00	29.10	30.02
SUNRISE: 0602 AUG 24 SUNSET: 1917														
01	CLR	NC			10.00		72	59	64	64	0	00	29.09	30.01
04	CLR	NC			10.00		68	59	63	73	0	00	29.08	30.00
07	CLR	NC			10.00		66	60	62	81	5	05	29.08	30.01
10	CLR	NC			10.00		76	60	66	58	0	00	29.09	30.01
13	CLR	NC			10.00		84	59	68	43	0	00	29.05	29.97
16	OVC	080			10.00		86	60	69	42	0	00	29.00	29.93
19	BKN	110			10.00		83	63	70	51	0	00	28.98	29.90
22	OVC	100			10.00		78	65	70	64	0	00	29.01	29.93

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 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 Cl'd 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	070				77	65	69	67	3	24	29.00	29.91	
04	BKN	070				75	66	69	74	0	00	28.97	29.88	
07	OVC	065			RA BR	72	68	69	87	3	22	29.01	29.93	
10	BKN	070			-RA	73	69	70	87	0	00	29.03	29.96	
13	SCT	013				75	69	71	82	3	05	29.01	29.93	
16	BKN	070				77	69	72	76	3	06	28.96	29.88	
19	BKN	120				75	69	71	82	0	00	28.95	29.88	
22	OVC	048			-RA BR	72	69	70	90	0	00	28.96	29.88	
SUNRISE: 0604 AUG 26 SUNSET: 1914														
01	BKN	110			-RA BR	71	69	70	93	0	00	28.93	29.86	
04	OVC	085			-RA BR	71	69	70	93	5	VR	28.91	29.84	
07	OVC	033			-RA BR	70	67	68	90	5	VR	28.91	29.84	
10	OVC	080			-RA BR	70	67	68	90	7	04	28.90	29.83	
13	OVC	014			-RA BR	70	68	69	93	7	VR	28.85	29.79	
16	OVC	014			-RA	70	67	68	90	5	05	28.83	29.76	
19	OVC	018			-RA	70	67	68	90	5	VR	28.82	29.75	
22	OVC	026			-RA BR	68	66	67	93	3	VR	28.84	29.78	
SUNRISE: 0604 AUG 27 SUNSET: 1913														
01	OVC	023			-RA BR	69	66	67	90	0	00	28.82	29.76	
04	OVC	023			RA BR	69	67	68	93	3	07	28.81	29.74	
07	OVC	008				70	67	68	90	0	00	28.84	29.78	
10	OVC	012				74	69	71	84	0	00	28.86	29.79	
13	BKN	025				74	71	72	90	0	00	28.86	29.79	
16	OVC	060				78	69	72	74	5	26	28.85	29.78	
19	OVC	080				75	67	70	76	0	00	28.88	29.80	
22	OVC	080				73	67	69	82	0	00	28.91	29.84	
SUNRISE: 0605 AUG 28 SUNSET: 1912														
01	OVC	027				71	67	68	87	0	00	28.91	29.84	
04	OVC	070				70	67	68	90	0	00	28.91	29.84	
07	OVC	036				70	66	67	87	0	00	28.95	29.88	
10	OVC	035				75	63	67	66	0	00	28.98	29.91	
13	SCT	060				83	61	69	48	6	VR	28.96	29.88	
16	BKN	075				84	62	70	48	3	08	28.94	29.86	
19	CLR	NC				80	61	68	52	0	00	28.94	29.86	
22	CLR	NC				69	65	66	87	0	00	28.94	29.88	
SUNRISE: 0606 AUG 29 SUNSET: 1910														
01	CLR	NC				66	63	64	90	0	00	29.02	29.95	
04	CLR	NC			BR	64	61	62	90	0	00	29.01	29.94	
07	VV	001			FG	63	61	62	93	0	00	29.03	29.96	
10	CLR	NC				76	64	68	67	0	00	29.04	29.97	
13	CLR	NC				85	62	70	46	3	VR	29.02	29.95	
16	FEW	110				87	62	71	43	0	00	28.99	29.92	
19	BKN	110				83	65	71	55	0	00	28.99	29.91	
22	SCT	075			HZ	74	68	70	82	0	00	29.02	29.95	
SUNRISE: 0607 AUG 30 SUNSET: 1909														
01	CLR	NC				70	67	68	90	0	00	29.03	29.95	
04	CLR	NC			BR	70	66	67	87	0	00	29.05	29.96	
07	VV	001			FG	68	67	67	97	0	00	29.09	30.01	
10	CLR	NC				80	65	70	60	3	35	29.13	30.05	
13	CLR	NC				88	65	73	47	3	VR	29.10	30.01	
16	CLR	NC				90	62	72	39	0	00	29.05	29.97	
19	CLR	NC				85	64	71	49	0	00	29.06	29.98	
22	CLR	NC				76	67	70	74	0	00	29.10	30.03	

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)								
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
															WEATHER	WEATHER			
SUNRISE: 0608 AUG 31 SUNSET: 1908																			
01	CLR	NC				6.00						73	67	69	82	0	00	29.10	30.03
04	CLR	NC				4.00						71	67	68	87	0	00	29.12	30.03
07	CLR	NC				3.00						70	67	68	90	0	00	29.16	30.09
10	CLR	NC				8.00						82	68	73	63	3	VR	29.17	30.10
13	CLR	NC				10.00						89	67	74	48	6	05	29.13	30.05
16	FEW	060				10.00						91	66	74	44	3	VR	29.08	29.99
19	CLR	NC				10.00						86	67	73	53	0	00	29.06	29.98
22	BKN	110				10.00						83	68	73	61	0	00	29.12	30.03

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.

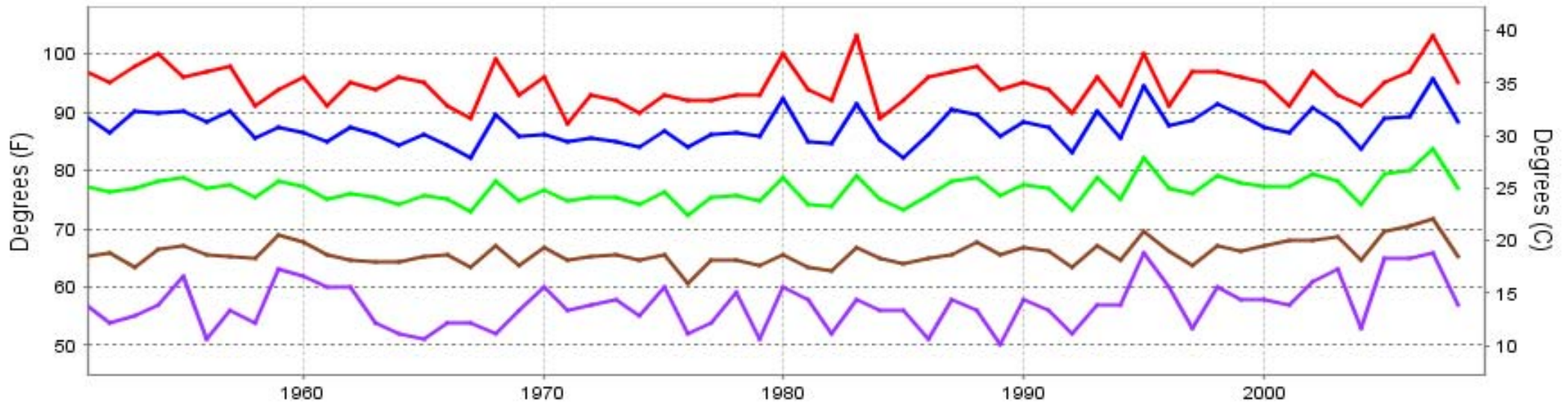
& = Original observation contained additional weather elements.

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			71	62	65	75	29.02	29.94	8.65	0	xxx	xx
02			69	62	65	78	29.01	29.93	8.48	0	xxx	xx
03			68	62	64	81	29.01	29.93	8.26	0	xxx	xx
04			67	62	64	83	29.01	29.93	8.05	0	xxx	xx
05			67	62	64	84	29.02	29.94	7.82	0	xxx	xx
06			66	61	63	85	29.03	29.95	7.67	0	xxx	xx
07			67	62	64	84	29.04	29.97	6.96	1	xxx	xx
08			71	63	66	76	29.05	29.98	8.21	1	1	01
09			75	62	67	66	29.05	29.98	9.10	4	2	08
10			78	62	68	58	29.05	29.98	9.68	3	2	06
11			81	61	68	53	29.05	29.98	9.45	3	2	07
12			83	60	69	47	29.04	29.96	9.48	3	1	36
13			85	60	69	45	29.03	29.95	9.81	4	1	04
14			86	59	69	43	29.01	29.93	9.73	4	1	02
15			87	59	69	41	29.00	29.92	9.73	4	1	05
16			87	59	69	41	28.99	29.91	9.87	3	1	33
17			86	59	69	42	28.98	29.91	10.00	4	3	29
18			85	60	69	44	28.98	29.91	10.00	4	1	29
19			83	60	68	48	28.98	29.91	9.97	2	2	29
20			79	61	68	55	28.99	29.92	9.90	0	xxx	xx
21			77	62	68	61	29.01	29.93	9.65	0	xxx	xx
22			75	62	67	66	29.02	29.94	9.23	0	xxx	xx
23			73	62	66	70	29.02	29.94	9.23	0	xxx	xx
24			72	62	66	73	29.03	29.95	8.97	0	xxx	xx

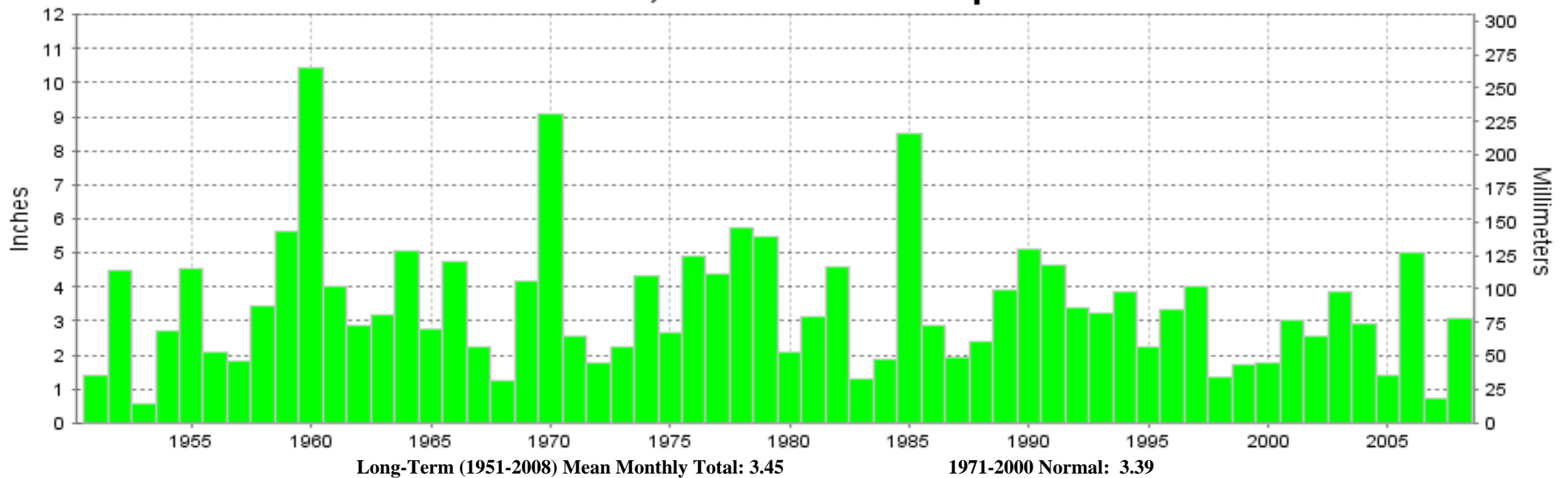
OAK RIDGE, TN AUGUST Temperatures



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

Long-Term (1951-2008) Mean: 76.6
1971-2000 Normal: 76.2

OAK RIDGE, TN AUGUST Precipitation



Long-Term (1951-2008) Mean Monthly Total: 3.45

1971-2000 Normal: 3.39



**AUGUST 2008
OAK RIDGE, TN**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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