



AUGUST 2011 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36° 1'N Long: 84° 14'W Elev (Ground) 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		null00 LST 11	null00 LST 12	null00 LST 13	null00 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	94	73	84	6	70	74	0	19	BR			0.00	29.07	29.99	0.8	04	1.5	13	05	8	07	01		
02	96	69	83	5	68	72	0	18	BR			0.00	29.00	29.91	0.1	35	0.6	10	07	7	12	02		
03	94	68	81	4	70	74	0	16	RA BR			0.29	28.90	29.81	0.4	26	1.8	22	28	13	27	03		
04	94	74	84	7	73	75	0	19	RA BR			T	28.94	29.86	0.8	18	1.7	13	06	8	07	04		
05	95	72	84	7	70	74	0	19	BR			0.00	29.02	29.93	0.3	25	0.5	13	29	8	28	05		
06	87	74	81	4	72	74	0	16	RA FG BR			0.40	29.03	29.95	0.9	23	2.4	28	29	17	27	06		
07	92	73	83	6	72	75	0	18	BR			0.00	28.94	29.85	1.8	24	2.9	14	20	9	27	07		
08	91	73	82	5	72	75	0	17	RA BR			0.17	28.89	29.79	0.2	10	1.9	23	05	13	05	08		
09	89	72	81	4	69	72	0	16				0.00	28.84	29.76	1.8	22	3.3	16	26	10	27	09		
10	92	67	80	3	68	72	0	15	RA FG+ BR			0.03	28.89	29.82	1.1	25	2.2	14	28	9	27	10		
11	90	70	80	3	67	71	0	15	FG+ FG BR			0.00	28.95	29.88	0.6	05	1.2	13	01	8	07	11		
12	91	66	79	2	65	69	0	14				0.00	29.02	29.95	0.6	10	1.1	13	27	8	28	12		
13	89	67	78	1	68	71	0	13	RA			0.01	29.01	29.93	0.1	07	1.7	23	32	14	33	13		
14	90	70	80	3	64	69	0	15	BR			0.00	28.91	29.83	2.0	28	3.1	25	27	15	26	14		
15	84	64	74	-3	61	65	0	9	BR			0.00	28.96	29.90	0.7	29	1.9	14	01	8	35	15		
16	87	60	74	-2	60	65	0	9	BR HZ			0.00	29.07	30.02	0.7	02	1.5	14	30	8	36	16		
17	92	62	77	1	62	67	0	12	BR			0.00	29.13	30.06	0.8	07	1.5	14	26	9	27	17		
18	94	67	81	5	65	70	0	16	BR			0.00	29.07	29.98	0.4	19	2.0	20	30	10	27	18		
19	92	70	81	5	67	71	0	16	RA HZ			0.01	28.98	29.91	0.5	16	3.2	33*	20	20*	19	19		
20	95	66	81	5	67	71	0	16				0.00	29.02	29.94	0.2	20	1.1	12	05	7	07	20		
21	92	71	82	6	69	72	0	17	RA			T	29.03	29.95	0.9	20	2.1	16	25	9	25	21		
22	90	66	78	2	64	69	0	13				0.00	29.05	29.98	0.6	02	2.1	15	30	9	35	22		
23	90	61	76	1	57	64	0	11				0.00	29.08	30.01	0.9	08	1.8	14	07	9	05	23		
24	94	61	78	3	62	67	0	13	HZ			0.00	29.04	29.96	0.8	19	1.7	15	29	9	21	24		
25	98*	72	85*	10	65	72	0	20				0.00	28.98	29.90	0.4	25	2.4	17	28	10	25	25		
26	94	73	84	9	68	73	0	19	BR			0.00	28.94	29.85	0.9	01	2.5	16	33	10	35	26		
27	90	67	79	4	60	67	0	14				0.00	28.85	29.76	1.2	05	2.9	22	07	14	07	27		
28	88	61	75	0	58	64	0	10				0.00	28.84	29.77	2.3	05	2.9	20	07	14	07	28		
29	88	59*	74*	-1	55	62	0	9				0.00	28.96	29.91	1.0	02	2.7	17	08	12	08	29		
30	92	61	77	3	59	65	0	12				0.00	29.07	30.01	0.7	06	2.0	13	09	9	08	30		
31	94	65	80	6	62	68	0	15	BR			0.00	29.15	30.09	0.5	19	1.4	13	23	8	18	31		
91.5		67.5	79.5	☼	65.5	70.0	0.0	14.9	< MONTHLY AVERAGES TOTALS >			0.91	28.99	29.91	0.0	28	2.0	< MONTHLY AVERAGES						
4.3	2.3	3.3	-----DEPARTURE FROM NORMAL -----						-2.48	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 0.40 DATE : 06				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.15 31 1026								
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM :				29.70 27 1606								
HEATING :		0 0		0 0		NUMBER OF ->		MAXIMUM TEMP >= 90 : 24		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 6												
COOLING :		461 114		1609 512		DAYS WITH		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 3												
								THUNDERSTORMS : 0		HEAVY FOG : 2		SNOWFALL >= 1.0 INCH :												

AUGUST 2011
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 2011

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03										0.25	0.04	03	0.29	0.29	
04	T												04												04	T	T	
05													05												05	0.00	0.00	
06													06			0.39	0.01								06	0.40	0.40	
07													07												07	0.00	0.00	
08													08	0.05	0.05					0.07					08	0.17	0.17	
09													09												09	0.00	0.00	
10													10									0.03			10	0.03	0.03	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13											0.01	13	0.01	0.01	
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		T	T				T					19	0.01	0.01	
20													20									0.01			20	0.00	0.00	
21										T	T		21												21	T	T	
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	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.16	0.26	0.35	0.38	0.40	0.40	0.40	0.40	0.40	0.40	0.40	0.40
Ending Date	06	06	06	06	06	06	06	06	06	06	06	06
Ending Time (Hr/Min)	1451	1454	1455	1459	1502	1502	1502	1502	1502	1502	1502	1502

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 2011

Ceilometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR-SS), or midnight to midnight (MN-MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0-2 oktas, Partly Cloudy = 3-6 oktas, Cloudy = 7-8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

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							4.00	10.00	
02							4.00	10.00	
03							1.00	10.00	
04							6.00	10.00	
05							4.00	10.00	
06							0.50	10.00	
07							4.00	10.00	
08							1.50	10.00	
09							9.00	10.00	
10							0.25	10.00	
11							0.25	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							6.00	10.00	
15							6.00	10.00	
16							2.50	10.00	
17							6.00	10.00	
18							5.00	10.00	
19							5.00	10.00	
20							10.00	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							9.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							5.00	10.00	
MONTHLY AVGS							6.10	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		6			13				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2011

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: 0544 AUG 01 SUNSET: 1943														
01	CLR	NC			9.00		76	72	73	87	0	00	29.10	30.02
04	CLR	NC			6.00	BR	74	71	72	90	0	00	29.09	30.00
07	CLR	NC			5.00	BR	74	71	72	90	0	00	29.10	30.03
10	CLR	NC			10.00		84	71	75	65	6	06	29.10	30.02
13	FEW	041			10.00		91	70	76	50	0	00	29.08	29.99
16	CLR	NC			10.00		93	66	75	41	3	36	29.03	29.94
19	CLR	NC			10.00		88	70	75	55	0	00	29.02	29.94
22	CLR	NC			10.00		77	71	73	82	0	00	29.05	29.97
SUNRISE: 0545 AUG 02 SUNSET: 1942														
01	CLR	NC			9.00		73	69	70	87	0	00	29.05	29.96
04	CLR	NC			7.00		70	68	69	93	0	00	29.03	29.94
07	CLR	NC			4.00	BR	70	68	69	93	0	00	29.03	29.95
10	CLR	NC			10.00		85	69	74	59	3	VR	29.05	29.96
13	CLR	NC			10.00		91	67	75	45	0	00	29.01	29.92
16	CLR	NC			10.00		94	63	73	36	0	00	28.95	29.86
19	CLR	NC			10.00		90	70	76	52	0	00	28.94	29.86
22	CLR	NC			10.00		77	69	72	76	0	00	28.95	29.87
SUNRISE: 0546 AUG 03 SUNSET: 1941														
01	CLR	NC			10.00		72	67	69	84	0	00	28.93	29.85
04	CLR	NC			10.00		69	66	67	90	0	00	28.93	29.84
07	CLR	NC			10.00		70	66	67	87	0	00	28.95	29.87
10	FEW	120			10.00		84	69	74	61	0	00	28.95	29.86
13	FEW	050			9.00		94	70	77	46	6	VR	28.93	29.84
16	FEW	120			10.00		91	73	78	56	3	VR	28.85	29.76
19	CLR	NC			10.00		91	73	78	56	0	00	28.82	29.73
22	FEW	060			9.00		84	76	78	77	0	00	28.83	29.74
SUNRISE: 0546 AUG 04 SUNSET: 1940														
01	CLR	NC			8.00		76	74	75	94	0	00	28.90	29.81
04	CLR	NC			10.00		74	73	73	97	3	16	28.88	29.79
07	CLR	NC			9.00		75	72	73	90	0	00	28.94	29.85
10	SCT	022			10.00		82	73	76	74	3	VR	28.96	29.87
13	BKN	030			10.00		88	75	79	65	0	00	28.97	29.88
16	CLR	NC			10.00		92	73	78	54	0	00	28.94	29.85
19	CLR	NC			10.00		87	72	76	61	0	00	28.95	29.87
22	CLR	NC			8.00		77	72	74	85	0	00	28.99	29.91
SUNRISE: 0547 AUG 05 SUNSET: 1939														
01	CLR	NC			6.00	BR	74	71	72	90	0	00	29.00	29.91
04	CLR	NC			9.00		74	69	71	84	0	00	28.99	29.90
07	CLR	NC			4.00	BR	73	70	71	90	0	00	29.04	29.96
10	CLR	NC			9.00		84	72	76	67	0	00	29.05	29.97
13	SCT	045			10.00		90	69	75	50	0	00	29.04	29.95
16	BKN	120			10.00		92	69	76	47	3	VR	29.01	29.93
19	OVC	110			10.00		87	72	76	61	0	00	29.00	29.92
22	CLR	NC			10.00		83	74	77	74	0	00	29.02	29.93
SUNRISE: 0548 AUG 06 SUNSET: 1938														
01	CLR	NC			10.00		80	70	73	72	0	00	29.00	29.91
04	CLR	NC			10.00		78	70	73	77	3	22	29.02	29.93
07	FEW	044			10.00		78	70	73	77	0	00	29.07	29.98
10	OVC	110			10.00		80	71	74	74	5	VR	29.09	30.00
13	OVC	110			10.00		83	72	75	70	6	VR	29.08	29.99
16	CLR	NC			10.00		75	73	74	94	3	VR	29.03	29.95
19	CLR	NC			10.00		79	73	75	82	0	00	28.99	29.91
22	CLR	NC			10.00		76	72	73	87	0	00	29.01	29.93
SUNRISE: 0549 AUG 07 SUNSET: 1937														
01	CLR	NC			9.00		74	72	73	94	0	00	28.99	29.91
04	CLR	NC			8.00		73	71	72	93	3	25	28.98	29.91
07	OVC	033			5.00	BR	75	73	74	94	7	21	28.99	29.91
10	CLR	NC			10.00		85	71	75	63	5	26	29.00	29.92
13	SCT	037			10.00		88	72	77	59	7	VR	28.95	29.86
16	SCT	044			10.00		90	71	77	54	6	26	28.89	29.80
19	FEW	100			10.00		88	72	77	59	5	26	28.86	29.78
22	CLR	NC			10.00		81	74	76	79	0	00	28.89	29.80
SUNRISE: 0549 AUG 08 SUNSET: 1936														
01	CLR	NC			10.00		80	73	75	79	0	00	28.90	29.81
04	CLR	NC			10.00		77	73	74	88	0	00	28.87	29.78
07	CLR	NC			10.00		78	73	75	85	0	00	28.88	29.80
10	FEW	023			10.00		86	74	77	68	6	VR	28.91	29.82
13	BKN	090			1.50	+RA	84	76	78	77	6	VR	28.91	29.82
16	CLR	NC			10.00		88	72	77	59	0	00	28.84	29.75
19	SCT	070			10.00		76	72	73	87	0	00	28.85	29.77
22	FEW	050			10.00		73	70	71	90	0	00	28.84	29.75
SUNRISE: 0550 AUG 09 SUNSET: 1935														
01	SCT	049			10.00		74	70	71	87	3	21	28.84	29.76
04	CLR	NC			10.00		74	68	70	82	0	00	28.81	29.72
07	BKN	024			10.00		73	68	70	84	6	19	28.84	29.77
10	CLR	NC			10.00		81	71	74	72	7	20	28.85	29.77
13	SCT	039			10.00		86	71	76	61	8	21	28.83	29.74
16	FEW	120			10.00		84	68	73	59	6	VR	28.82	29.73
19	CLR	NC			10.00		81	69	73	67	3	26	28.83	29.75
22	CLR	NC			10.00		76	70	72	82	0	00	28.88	29.80
SUNRISE: 0551 AUG 10 SUNSET: 1934														
01	CLR	NC			10.00		71	68	69	90	0	00	28.89	29.80
04	CLR	NC			8.00		69	67	68	93	0	00	28.87	29.79
07	VV	002			0.25	FG	68	68	68	100	0	00	28.90	29.83
10	CLR	NC			10.00		81	68	72	65	5	27	28.93	29.84
13	SCT	042			10.00		88	66	73	48	6	VR	28.91	29.82
16	CLR	NC			10.00		92	65	74	41	8	27	28.87	29.79
19	SCT	110			10.00		85	69	74	59	6	25	28.88	29.80
22	CLR	NC			10.00		77	72	74	85	0	00	28.92	29.84
SUNRISE: 0552 AUG 11 SUNSET: 1933														
01	SCT	110			10.00		76	72	73	87	0	00	28.91	29.82
04	SCT	095			9.00		73	70	71	90	0	00	28.91	29.83
07	VV	002			0.25	FG	71	70	70	97	0	00	28.96	29.88
10	CLR	NC			10.00		82	67	72	61	3	07	28.98	29.90
13	CLR	NC			10.00		86	62	70	45	0	00	28.98	29.89
16	FEW	075			10.00		87	63	71	45	0	00	28.95	29.86
19	CLR	NC			10.00		82	66	71	58	3	VR	28.96	29.88
22	CLR	NC			10.00		74	66	69	76	0	00	28.99	29.91
SUNRISE: 0553 AUG 12 SUNSET: 1932														
01	CLR	NC			10.00		71	66	68	84	0	00	29.00	29.92
04	CLR	NC			10.00		68	64	65	87	0	00	29.01	29.93
07	CLR	NC			10.00		68	64	65	87	0	00	29.04	29.97
10	CLR	NC			10.00		81	63	69	54	3	08	29.09	30.01
13	CLR	NC			10.00		87	63	71	45	5	17	29.05	29.96
16	BKN	075			10.00		90	61	71	38	3	VR	29.01	29.93
19	CLR	NC			10.00		85	67	73	55	0	00	28.99	29.91
22	CLR	NC			10.00		74	69	71	84	0	00	29.04	29.96

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2011

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																																																																																																																																																																																				
																														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			9.00		70	67	68	90	0	00	29.02	29.94	01	CLR	NC			10.00		74	66	69	76	0	00	28.99	29.91	04	SCT	085			8.00		72	66	68	82	0	00	28.99	29.90	04	SCT	085			8.00	HZ	71	66	68	84	0	00	29.01	29.93	10	CLR	NC			10.00		83	67	72	59	5	VR	29.02	29.93	10	CLR	NC			10.00		90	65	73	44	5	VR	28.98	29.89	13	FEW	120			10.00		88	66	73	48	3	VR	29.04	29.96	13	CLR	NC			10.00		83	70	74	65	0	00	28.99	29.91	16	CLR	NC			10.00		82	71	74	69	0	00	28.94	29.86	16	CLR	NC			10.00		83	70	74	65	0	00	28.99	29.91	19	CLR	NC			10.00		82	71	74	69	0	00	28.94	29.86	19	BKN	110			5.00	RA	77	69	72	76	21	20	28.97	29.90	22	CLR	NC			10.00		76	71	73	85	0	00	28.96	29.87	22	BKN	110			10.00		71	66	68	84	0	00	29.01	29.93
SUNRISE: 0554													AUG 14			SUNSET: 1929					SUNRISE: 0559													AUG 20			SUNSET: 1922																																																																																																																																																																												
01	OVC	055			10.00	BR	74	70	71	87	0	00	28.95	29.87	01	CLR	NC			10.00		69	66	67	90	0	00	29.01	29.93	04	CLR	NC			6.00		71	69	70	93	0	00	28.94	29.86	04	CLR	NC			10.00		72	69	70	90	0	00	28.94	29.86	07	BKN	023			9.00		80	68	72	67	0	00	28.94	29.86	10	SCT	022			10.00		88	62	71	42	14	27	28.87	29.79	13	SCT	100			10.00		86	61	70	43	8	30	28.86	29.78	16	SCT	075			10.00		81	59	67	47	3	VR	28.89	29.81	19	CLR	NC			10.00		73	61	66	66	0	00	28.92	29.84	22	CLR	NC			10.00		73	61	66	66	0	00	28.92	29.84																																																												
SUNRISE: 0555													AUG 15			SUNSET: 1928					SUNRISE: 0560													AUG 21			SUNSET: 1921																																																																																																																																																																												
01	CLR	NC			10.00		70	60	64	71	0	00	28.93	29.85	01	BKN	070			10.00		74	69	71	84	3	15	29.03	29.94	04	BKN	044			10.00		69	60	64	73	0	00	28.92	29.84	04	CLR	NC			10.00		68	61	64	78	0	00	28.95	29.88	07	OVC	041			8.00		72	61	65	68	0	00	28.99	29.92	10	OVC	032			10.00		78	59	66	52	0	00	28.99	29.91	13	OVC	055			10.00		81	59	67	47	3	VR	28.96	29.88	16	SCT	070			10.00		78	61	67	56	0	00	28.98	29.91	19	CLR	NC			10.00		70	62	65	76	0	00	29.03	29.97	22	CLR	NC			10.00		70	62	65	76	0	00	29.03	29.97																																																												
SUNRISE: 0556													AUG 16			SUNSET: 1927					SUNRISE: 0601													AUG 22			SUNSET: 1920																																																																																																																																																																												
01	CLR	NC			6.00	BR	64	61	62	90	0	00	29.04	29.98	01	CLR	NC			10.00		75	69	71	82	0	00	29.03	29.95	04	CLR	NC			5.00	BR	62	59	60	90	0	00	29.06	29.99	04	CLR	NC			10.00		72	68	69	87	0	00	29.04	29.96	07	CLR	NC			4.00	BR	63	60	61	90	0	00	29.09	30.02	07	CLR	NC			10.00		77	62	67	60	6	09	29.10	30.03	10	CLR	NC			10.00		84	58	68	41	5	35	29.09	30.02	13	FEW	050			10.00		86	56	67	36	0	00	29.07	30.00	16	CLR	NC			10.00		79	61	68	54	0	00	29.09	30.03	19	CLR	NC			10.00		70	63	66	79	0	00	29.12	30.05	22	CLR	NC			10.00		70	63	66	79	0	00	29.12	30.05																																													
SUNRISE: 0557													AUG 17			SUNSET: 1926					SUNRISE: 0601													AUG 23			SUNSET: 1918																																																																																																																																																																												
01	CLR	NC			10.00		66	62	64	87	0	00	29.13	30.06	01	CLR	NC			10.00		65	61	63	87	0	00	29.10	30.02	04	CLR	NC			7.00		64	61	62	90	0	00	29.14	30.08	04	CLR	NC			10.00		64	61	62	90	3	06	29.18	30.12	07	CLR	NC			6.00	BR	78	63	68	60	0	00	29.19	30.13	10	CLR	NC			7.00		88	62	71	42	5	VR	29.14	30.07	13	CLR	NC			10.00		91	59	70	34	0	00	29.10	30.02	16	FEW	065			10.00		85	64	71	49	3	08	29.07	30.00	19	CLR	NC			10.00		76	66	69	71	0	00	29.10	30.03	22	BKN	070			10.00		76	66	69	71	0	00	29.10	30.03																																																												
SUNRISE: 0557													AUG 18			SUNSET: 1925					SUNRISE: 0602													AUG 24			SUNSET: 1917																																																																																																																																																																												
01	CLR	NC			9.00		73	66	68	79	0	00	29.12	30.03	01	CLR	NC			10.00		64	60	62	87	0	00	29.06	29.98	04	CLR	NC			7.00		70	66	67	87	0	00	29.10	30.02	04	CLR	NC			10.00		62	59	60	90	0	00	29.04	29.96	07	BKN	110			5.00	BR	69	66	67	90	0	00	29.13	30.06	10	CLR	NC			10.00		83	64	71	53	6	VR	29.13	30.04	13	CLR	NC			10.00		90	65	73	44	5	VR	29.07	29.98	16	CLR	NC			10.00		93	62	72	36	5	VR	28.99	29.90	19	CLR	NC			10.00		86	68	74	55	0	00	28.97	29.89	22	BKN	060			10.00		81	65	70	58	8	16	29.00	29.91																																																												

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2011

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	
														WEATHER
SUNRISE: 0603 AUG 25 SUNSET: 1916														
01	CLR	NC			10.00		76	66	69	71	0	00	29.00	29.91
04	CLR	NC			10.00		74	65	68	74	0	00	29.01	29.92
07	CLR	NC			10.00		73	65	68	76	3	19	29.03	29.95
10	CLR	NC			10.00		83	65	71	55	7	25	29.04	29.95
13	CLR	NC			10.00		94	62	73	35	6	VR	29.01	29.92
16	CLR	NC			10.00		97	62	73	31	6	VR	28.94	29.84
19	FEW	085			10.00		90	68	75	48	3	34	28.93	29.84
22	CLR	NC			10.00		79	70	73	74	0	00	28.98	29.89
SUNRISE: 0604 AUG 26 SUNSET: 1914														
01	BKN	080			10.00		79	72	74	79	0	00	28.97	29.88
04	CLR	NC			8.00	BR	75	71	72	87	0	00	28.97	29.88
07	CLR	NC			4.00	BR	74	71	72	90	0	00	28.99	29.90
10	CLR	NC			10.00		86	70	75	59	5	VR	28.99	29.90
13	OVC	090			10.00		90	69	75	50	5	VR	28.94	29.85
16	FEW	090			10.00		92	65	74	41	6	VR	28.89	29.80
19	CLR	NC			10.00		85	64	71	49	0	00	28.89	29.80
22	CLR	NC			10.00		79	61	68	54	5	01	28.91	29.83
SUNRISE: 0604 AUG 27 SUNSET: 1913														
01	CLR	NC			10.00		75	63	67	66	3	VR	28.88	29.79
04	CLR	NC			10.00		71	63	66	76	0	00	28.86	29.77
07	CLR	NC			9.00		68	63	65	84	0	00	28.86	29.78
10	CLR	NC			10.00		81	63	69	54	7	VR	28.87	29.79
13	SCT	049			10.00		86	59	69	40	7	VR	28.86	29.77
16	CLR	NC			10.00		89	57	69	34	5	35	28.79	29.70
19	CLR	NC			10.00		83	55	66	38	0	00	28.81	29.74
22	CLR	NC			10.00		71	59	64	66	0	00	28.84	29.77
SUNRISE: 0605 AUG 28 SUNSET: 1912														
01	CLR	NC			10.00		66	59	62	78	0	00	28.81	29.74
04	CLR	NC			10.00		63	59	61	87	0	00	28.80	29.73
07	CLR	NC			10.00		65	59	61	81	0	00	28.83	29.76
10	CLR	NC			10.00		77	59	66	54	3	08	28.85	29.78
13	CLR	NC			10.00		84	59	68	43	9	07	28.84	29.76
16	SCT	075			10.00		83	56	66	40	7	02	28.84	29.76
19	CLR	NC			10.00		80	55	65	42	3	35	28.86	29.79
22	CLR	NC			10.00		68	58	62	71	0	00	28.90	29.83
SUNRISE: 0606 AUG 29 SUNSET: 1910														
01	CLR	NC			10.00		63	58	60	84	0	00	28.92	29.85
04	CLR	NC			10.00		60	57	58	90	0	00	28.93	29.86
07	CLR	NC			10.00		60	57	58	90	0	00	28.97	29.90
10	CLR	NC			10.00		77	56	64	48	6	07	29.01	29.94
13	CLR	NC			10.00		84	51	64	32	6	VR	29.00	29.93
16	CLR	NC			10.00		86	51	65	30	5	VR	28.97	29.90
19	CLR	NC			10.00		79	53	63	41	5	VR	28.99	29.92
22	CLR	NC			10.00		68	57	61	68	0	00	29.04	29.97
SUNRISE: 0607 AUG 30 SUNSET: 1909														
01	CLR	NC			10.00		65	57	60	75	0	00	29.06	29.98
04	CLR	NC			10.00		62	57	59	84	0	00	29.06	29.99
07	CLR	NC			10.00		62	58	60	87	0	00	29.10	30.04
10	CLR	NC			10.00		78	60	67	54	7	07	29.13	30.06
13	CLR	NC			10.00		87	59	69	39	0	00	29.09	30.02
16	CLR	NC			10.00		91	56	69	31	0	00	29.04	29.96
19	FEW	085			10.00		84	61	69	46	3	VR	29.04	29.97
22	BKN	090			10.00		75	63	67	66	3	05	29.09	30.01

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	
														WEATHER
SUNRISE: 0608 AUG 31 SUNSET: 1908														
01	CLR	NC			10.00		71	64	67	79	0	00	29.13	30.05
04	CLR	NC			9.00	BR	67	63	65	87	0	00	29.14	30.07
07	CLR	NC			5.00	BR	66	63	64	90	0	00	29.20	30.14
10	CLR	NC			10.00		83	63	70	51	5	17	29.22	30.15
13	CLR	NC			10.00		90	62	72	39	5	20	29.17	30.10
16	CLR	NC			10.00		94	55	69	27	3	33	29.12	30.03
19	CLR	NC			10.00		87	59	69	39	0	00	29.10	30.03
22	CLR	NC			10.00		74	63	67	69	0	00	29.16	30.09

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

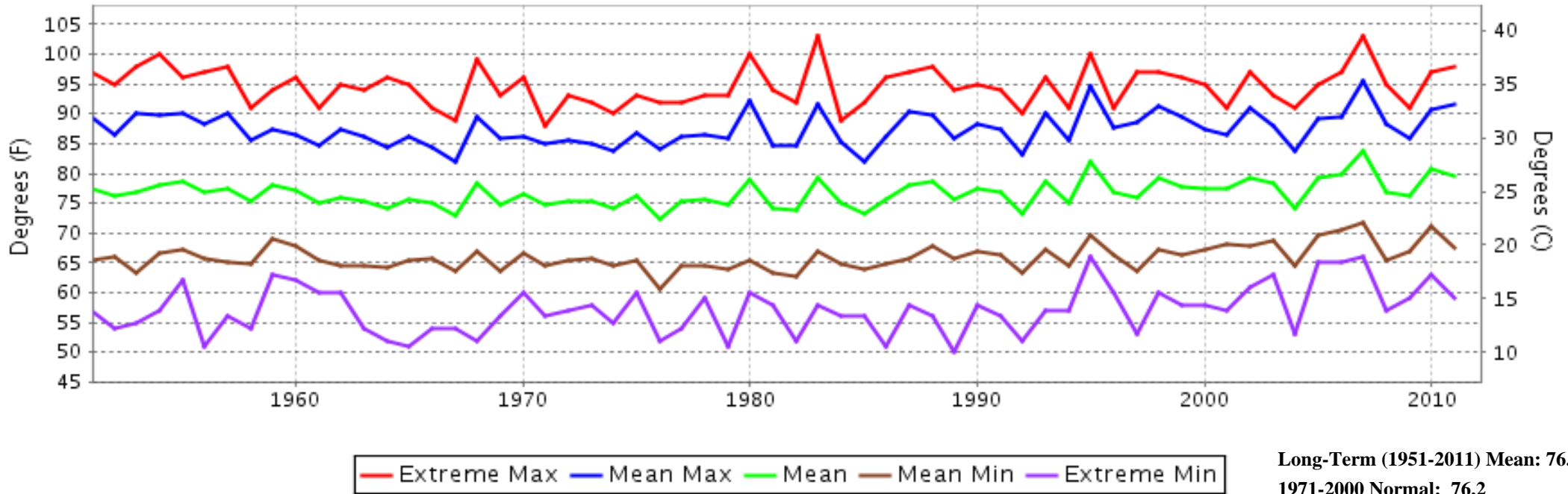
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

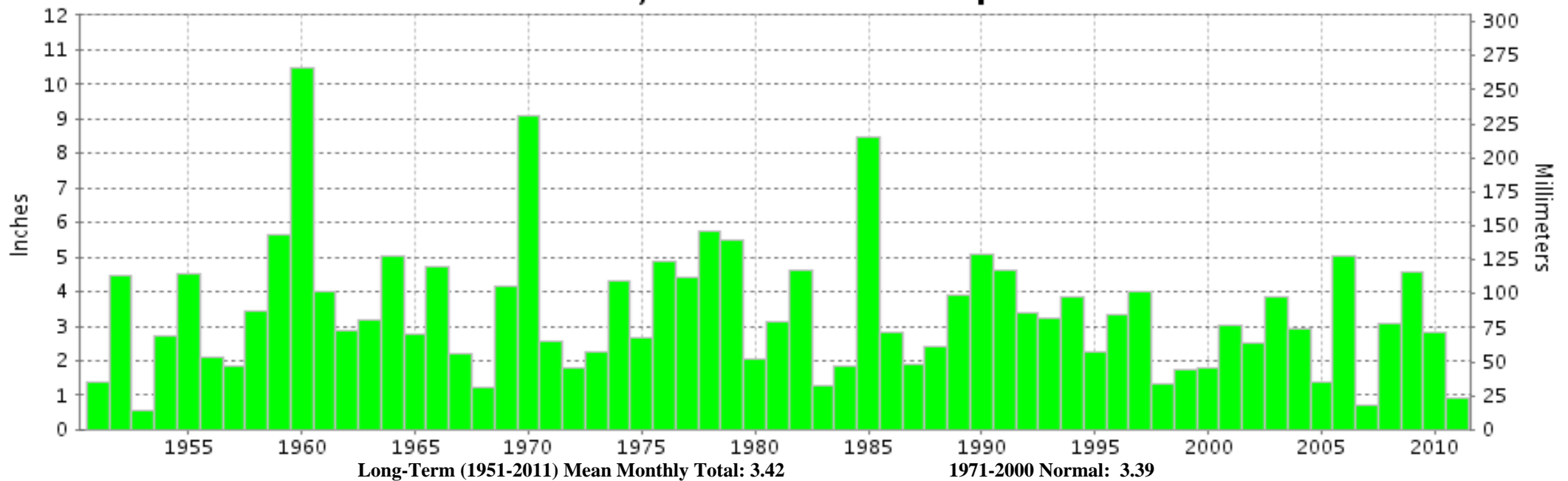
SUMMARY BY HOUR

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			72	66	68	83	28.99	29.91	9.52	0	xxx	xx
02			71	66	68	85	28.98	29.90	9.29	0	xxx	xx
03			70	66	68	86	28.98	29.90	8.97	0	xxx	xx
04			70	66	67	87	28.99	29.90	8.94	0	xxx	xx
05			69	65	67	88	28.99	29.91	8.61	0	xxx	xx
06			68	65	66	89	29.00	29.92	7.70	0	xxx	xx
07			70	66	67	88	29.02	29.94	7.50	1	0	27
08			73	66	69	80	29.03	29.95	9.13	2	1	27
09			78	66	70	68	29.03	29.95	9.90	4	3	09
10			81	66	71	61	29.03	29.95	9.84	4	1	09
11			84	66	72	56	29.03	29.95	10.00	4	2	09
12			86	65	72	51	29.02	29.93	10.00	4	2	09
13			87	65	72	48	29.01	29.92	9.66	5	2	27
14			88	64	72	46	28.99	29.91	9.90	5	1	27
15			89	63	72	43	28.97	29.89	9.69	4	1	27
16			89	63	72	44	28.96	29.88	10.00	4	2	27
17			89	63	72	44	28.95	29.87	10.00	4	1	27
18			87	64	72	47	28.95	29.87	10.00	3	1	27
19			84	65	72	55	28.96	29.88	9.84	2	2	27
20			80	66	71	64	28.97	29.89	10.00	1	1	09
21			77	67	70	71	28.98	29.90	9.94	0	xxx	xx
22			75	67	70	75	28.99	29.91	9.90	1	xxx	xx
23			74	67	69	79	28.99	29.91	9.48	0	xxx	xx
24			73	66	69	81	29.00	29.92	9.55	0	xxx	xx

OAK RIDGE, TN AUGUST Temperatures



OAK RIDGE, TN AUGUST Precipitation





AUGUST 2011
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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