



OCTOBER 2008

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN
 OAK RIDGE (KOQT)
 Lat:36° 1' N Long: 84° 14' W Elev (Ground) 910 Feet
 Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	70	48	59	-5	44	51	6	0				0.00	28.93	29.89	1.2	31	2.1	18	35	13	33	01		
02	71	41	56	-8	41	48	9	0				0.00	29.00	29.98	0.5	22	1.3	14	28	7	25	02		
03	75	41	58	-6	43	50	7	0	FG BR			0.00	29.07	30.06	0.6	22	1.0	13	20	9	22	03		
04	80	46	63	0	48	54	2	0	BR			0.00	29.20	30.17	0.1	17	0.9	13	17	9	18	04		
05	81	49	65	2	51	57	0	0	BR			0.00	29.26	30.23	0.5	15	1.1	9	17	7	20	05		
06	84	52	68	6	52	58	0	3	BR			0.00	29.26	30.22	0.6	07	1.3	13	09	9	09	06		
07	82	51	67	5	52	58	0	2	RA BR			T	29.21	30.15	0.5	22	1.4	13	22	9	21	07		
08	66	61	64	3	62	62	1	0	RA BR			1.21	29.05	29.98	0.3	15	1.5	13	27	8	16	08		
09	74	59	67	6	60	62	0	2	FG+ FG BR			0.00	29.05	30.01	1.9	06	2.3	15	05	12	07	09		
10	83	57	70	9	59	63	0	5	BR			0.00	29.13	30.10	0.3	04	1.0	9	36	7	07	10		
11	84	60	72	12	59	64	0	7				0.00	29.26	30.23	2.2	07	2.8	18	09	13	08	11		
12	83	61	72*	12	48	58	0	7				0.00	29.34	30.31	3.0	06	4.2	18	05	12	08	12		
13	83	55	69	10	53	59	0	4				0.00	29.39	30.34	1.0	08	1.2	12	06	9	07	13		
14	84*	56	70	11	59	62	0	5				0.00	29.31	30.26	0.1	12	0.7	9	07	6	08	14		
15	81	57	69	10	58	62	0	4	FG+ BR			0.00	29.21	30.16	0.3	23	1.6	15	24	9	26	15		
16	75	62	69	11	62	64	0	4	RA			0.01	29.15	30.10	1.8	21	2.7	12	21	8	21	16		
17	69	49	59	1	51	55	6	0	RA BR			0.12	29.13	30.08	2.0	06	2.6	14	36	9	01	17		
18	63	42	53	-5	39	46	12	0				0.00	29.18	30.19	1.0	01	2.2	18	35	14	07	18		
19	66	37	52	-5	35	43	13	0	BR			0.00	29.32	30.32	1.0	05	1.5	13	07	8	08	19		
20	67	37	52	-5	38	45	13	0				0.00	29.33	30.31	1.1	22	1.7	16	28	10	20	20		
21	70	41	56	0	42	48	9	0				0.00	29.26	30.25	1.5	05	1.8	14	04	10	07	21		
22	67	39	53	-3	31	42	12	0				0.00	29.31	30.30	1.2	05	2.2	17	05	10	06	22		
23	65	38	52	-4	37	45	13	0				0.00	29.34	30.34	0.5	05	0.8	12	07	7	07	23		
24	56	49	53	-2	45	48	12	0	RA BR			0.62	29.18	30.12	1.6	05	2.2	15	01	9	36	24		
25	62	42	52	-3	46	49	13	0	RA BR			0.03	29.04	30.03	2.0	21	2.3	15	18	9	20	25		
26	68	36	52	-3	42	46	13	0	FG+ FG BR			0.00	29.08	30.06	2.0	22	2.2	16	18	12	19	26		
27	52	41	47	-7	24	38	18	0	RA			0.01	29.20	30.22	2.4	29	4.6	28*	28	15*	28	27		
28	50	34	42*	-12	28	36	23	0	RA			0.01	29.31	30.33	1.4	32	2.5	24	31	14	32	28		
29	59	29*	44	-9	25	36	21	0				0.00	29.28	30.30	1.6	25	2.7	21	26	14	25	29		
30	66	30	48	-5	30	38	17	0				0.00	29.46	30.49	0.4	08	0.5	8	10	7	08	30		
31	67	32	50	-3	34	41	15	0				0.00	29.54	30.55	0.5	18	0.7	12	21	7	19	31		

71.1	46.2	58.7	☼	45.1	51.2	7.6	1.4	< MONTHLY AVERAGES TOTALS >				2.01	29.22	30.19	0.2	05	1.9	< MONTHLY AVERAGES			
0.0	0.5	0.3		-----DEPARTURE FROM NORMAL ----->								-1.01	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								
DEGREE DAYS						GREATEST 24-HR PRECIPITATION : 1.21 DATE : 08						SEA LEVEL PRESSURE									
MONTHLY						GREATEST 24-HR SNOWFALL :						MAXIMUM : 30.66 DATE : 31 TIME : 0910									
TOTAL DEPARTURE						GREATEST SNOW DEPTH :						MINIMUM : 29.84 DATE : 01 TIME : 0409									
SEASON TO DATE						NUMBER OF -> DAYS WITH						PRECIPITATION >= 0.01 INCH: 7									
HEATING : 235 5 235 -25						MAXIMUM TEMP >= 90 : 0						MINIMUM TEMP <= 32 : 3									
COOLING : 43 20 1535 235						MAXIMUM TEMP <= 32 : 0						MINIMUM TEMP <= 0 : 0									
						THUNDERSTORMS : 0						HEAVY FOG : 3									
												PRECIPITATION >= 0.10 INCH: 3									
												SNOWFALL >= 1.0 INCH :									

OCTOBER 2008
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 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													07												07	T	T	
08			0.04	0.09	0.05	0.08	0.02	0.02	0.26	0.12	0.19	0.18	08	0.14	0.02										08	1.21	1.21	
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	0.01	0.01	
17	0.05	0.01			0.01	0.04	0.01	T					17												17	0.12	0.12	
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						T	0.02	T					24	0.04	0.21	0.10	0.03	0.02	0.02	0.02	0.01	0.05	0.02	0.04	0.01	24	0.62	0.62
25	0.02	0.01											25												25	0.03	0.03	
26													26												26	0.00	0.00	
27													27												27	0.01	0.01	
28	T	T	T	T	T	0.01							28												28	0.01	0.01	
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)	0.06	0.09	0.12	0.14	0.16	0.22	0.28	0.33	0.36	0.42	0.50	0.59
Ending Date	08	08	08	08	08	08	08	08	08	08	08	08
Ending Time (Hr/Min)	0844	1035	1039	1039	0908	0846	0902	0914	1204	1222	1039	1108

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 OCTOBER 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							10.00	10.00	
02							9.00	10.00	
03							0.50	10.00	
04							3.00	10.00	
05							4.00	10.00	
06							2.50	10.00	
07							3.00	10.00	
08							1.25	10.00	
09							0.25	10.00	
10							6.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							0.25	10.00	
16							8.00	10.00	
17							4.00	10.00	
18							10.00	10.00	
19							6.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							1.75	10.00	
25							1.50	10.00	
26							0.25	10.00	
27							8.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.40	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		
3			10				17		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2008

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		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	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0632						OCT 01						SUNSET: 1821																									
01	CLR	NC			10.00						56	53	54	90	0	00	28.93	29.87	01	CLR	NC			8.00						56	53	54	90	0	00	29.25	30.20
04	CLR	NC			10.00						58	47	52	67	5	32	28.90	29.84	04	CLR	NC			6.00	BR					52	50	51	93	0	00	29.25	30.21
07	CLR	NC			10.00						50	47	48	90	0	00	28.93	29.89	07	CLR	NC			3.00	BR					52	50	51	93	0	00	29.29	30.25
10	BKN	039			10.00						60	44	52	56	0	00	28.95	29.91	10	CLR	NC			10.00						68	54	60	61	0	00	29.27	30.23
13	SCT	055			10.00						66	39	52	37	8	33	28.93	29.88	13	CLR	NC			10.00						79	50	62	36	7	VR	29.19	30.14
16	CLR	NC			10.00						68	37	52	32	7	VR	28.92	29.86	16	BKN	100			10.00						80	48	62	33	3	VR	29.13	30.08
19	CLR	NC			10.00						60	40	50	48	0	00	28.95	29.91	19	OVC	095			10.00	-RA					74	50	60	43	3	VR	29.15	30.11
22	CLR	NC			10.00						50	43	47	77	0	00	28.99	29.96	22	OVC	100			10.00						66	60	62	81	0	00	29.13	30.07
SUNRISE: 0633						OCT 02						SUNSET: 1820																									
01	CLR	NC			10.00						46	42	44	86	0	00	29.00	29.96	01	BKN	065			10.00						64	60	62	87	0	00	29.08	30.01
04	CLR	NC			10.00						43	41	42	93	0	00	29.01	29.97	04	OVC	049			5.00	-RA BR					62	60	61	93	0	00	29.07	30.00
07	CLR	NC			10.00						41	39	40	93	0	00	29.03	30.00	07	OVC	060			2.50	-RA BR					63	62	62	97	0	00	29.06	30.00
10	CLR	NC			10.00						60	44	52	56	3	VR	29.07	30.03	10	OVC	013			1.25	-RA BR					63	62	62	97	0	00	29.07	30.01
13	BKN	055			10.00						68	39	53	35	3	VR	29.02	29.98	13	OVC	020			4.00	-RA BR					64	62	63	93	0	00	29.07	30.02
16	SCT	065			10.00						70	39	54	32	0	00	28.96	29.93	16	BKN	014			10.00						66	62	64	87	6	06	28.95	29.90
19	CLR	NC			9.00						61	42	51	50	0	00	28.99	29.96	19	CLR	NC			10.00						64	62	63	93	0	00	29.00	29.95
22	CLR	NC			10.00						51	44	48	77	0	00	29.02	29.98	22	BKN	070			10.00						63	62	62	97	3	18	29.04	29.98
SUNRISE: 0633						OCT 03						SUNSET: 1818																									
01	CLR	NC			10.00						46	43	45	89	0	00	29.04	30.00	01	OVC	006			0.25	FG					60	60	60	100	0	00	29.03	29.98
04	CLR	NC			10.00						43	41	42	93	0	00	29.05	30.02	04	OVC	005			0.25	FG					59	59	59	100	0	00	29.02	29.97
07	CLR	NC			10.00						42	40	41	93	0	00	29.10	30.07	07	OVC	001			2.00	BR					60	60	60	100	0	00	29.06	30.01
10	CLR	NC			10.00						57	47	52	69	0	00	29.13	30.10	10	CLR	NC			10.00						69	61	64	76	9	05	29.09	30.03
13	CLR	NC			10.00						72	38	54	29	8	19	29.10	30.06	13	BKN	038			10.00						72	61	65	68	6	05	29.07	30.01
16	CLR	NC			10.00						74	40	56	29	6	24	29.06	30.02	16	CLR	NC			10.00						73	61	66	66	0	00	29.05	30.00
19	CLR	NC			10.00						64	46	54	52	0	00	29.09	30.06	19	CLR	NC			10.00						67	61	63	81	0	00	29.08	30.03
22	CLR	NC			10.00						54	47	50	77	0	00	29.13	30.11	22	CLR	NC			10.00						63	58	60	84	0	00	29.10	30.06
SUNRISE: 0634						OCT 04						SUNSET: 1817																									
01	CLR	NC			10.00						50	47	48	90	0	00	29.15	30.12	01	CLR	NC			7.00						59	57	58	93	0	00	29.10	30.06
04	CLR	NC			10.00						48	46	47	93	0	00	29.18	30.15	04	CLR	NC			6.00	BR					58	57	57	97	0	00	29.10	30.05
07	SCT	003			8.00						46	44	45	93	0	00	29.23	30.21	07	CLR	NC			6.00	BR					57	56	56	96	0	00	29.15	30.11
10	CLR	NC			10.00						63	50	56	63	0	00	29.25	30.22	10	CLR	NC			10.00						70	60	64	71	0	00	29.19	30.14
13	CLR	NC			10.00						76	49	61	39	0	00	29.21	30.17	13	CLR	NC			10.00						78	59	66	52	3	VR	29.14	30.09
16	CLR	NC			10.00						78	45	60	31	3	VR	29.17	30.13	16	BKN	065			10.00						81	59	67	47	5	VR	29.13	30.08
19	CLR	NC			10.00						69	50	58	51	0	00	29.19	30.16	19	OVC	060			10.00						75	62	67	64	0	00	29.15	30.11
22	CLR	NC			10.00						58	51	54	78	0	00	29.23	30.20	22	CLR	NC			10.00						67	63	65	87	0	00	29.20	30.15
SUNRISE: 0635						OCT 05						SUNSET: 1815																									
01	CLR	NC			10.00						53	50	51	90	0	00	29.25	30.20	01	CLR	NC			10.00						64	62	63	93	0	00	29.23	30.18
04	CLR	NC			10.00						51	49	50	93	0	00	29.26	30.22	04	CLR	NC			10.00						62	60	61	93	0	00	29.25	30.19
07	SCT	003			5.00	BR					50	48	49	93	0	00	29.32	30.29	07	CLR	NC			10.00						61	59	60	93	0	00	29.29	30.24
10	CLR	NC			10.00						66	52	58	61	5	10	29.33	30.30	10	CLR	NC			10.00						73	60	65	64	7	VR	29.33	30.27
13	CLR	NC			10.00						78	52	63	40	3	VR	29.27	30.23	13	CLR	NC			10.00						80	59	67	49	8	07	29.29	30.23
16	CLR	NC			10.00						80	47	61	31	3	VR	29.21	30.16	16	FEW	055			10.00						83	59	68	44	5	06	29.25	30.19
19	CLR	NC			10.00						70	54	61	57	0	00	29.22	30.19	19	CLR	NC			10.00						75	59	65	58	0	00	29.26	30.21
22	CLR	NC			10.00						61	54	57	78	0	00	29.25	30.22	22	CLR	NC			10.00						68	58	62	71	5	05	29.32	30.27
SUNRISE: 0636						OCT 06						SUNSET: 1814																									
01	CLR	NC			7.00						56	53	54	90	0	00	29.27	30.22	01	CLR	NC			10.00						65	56	60	73	6	05	29.33	30.27
04	CLR	NC			5.00	BR					53	51	52	93	0	00	29.27	30.22	04	CLR	NC			10.00						64	51	57	63	6	06	29.35	30.29
07	CLR	NC			2.50	BR					52	50	51	93	0	00	29.31	30.28	07	CLR	NC			10.00						61	48	54	63	7	06	29.36	30.31
10	CLR	NC			10.00						68	55	60	63	0	00	29.33	30.29	10	CLR	NC			10.00						72	45	57	38	6	VR	29.39	30.34
13	CLR	NC			10.00						80	53	64	39	0	00	29.27	30.22	13	CLR	NC			10.00						80	48	62					

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
OCTOBER 2008

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		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	DRY BULB	DEW POINT
SUNRISE: 0642						OCT 13						SUNSET: 1804						SUNRISE: 0647						OCT 19						SUNSET: 1756					
01	CLR	NC			10.00		60	49	54	67	0	00	29.42	30.37	01	CLR	NC			10.00		41	38	40	89	0	00	29.31	30.29						
04	CLR	NC			10.00		57	50	53	78	5	07	29.41	30.36	04	CLR	NC			9.00		39	37	38	93	0	00	29.30	30.29						
07	CLR	NC			10.00		56	50	53	80	0	00	29.43	30.39	07	CLR	NC			6.00	BR	38	36	37	93	0	00	29.34	30.34						
10	CLR	NC			10.00		70	52	60	53	7	07	29.46	30.41	10	CLR	NC			10.00		53	37	46	55	5	05	29.39	30.38						
13	CLR	NC			10.00		79	53	64	41	5	15	29.40	30.35	13	CLR	NC			10.00		62	30	47	30	7	07	29.35	30.33						
16	CLR	NC			10.00		82	52	64	35	0	00	29.33	30.28	16	CLR	NC			10.00		65	28	48	25	0	00	29.30	30.28						
19	CLR	NC			10.00		72	58	64	62	0	00	29.33	30.29	19	CLR	NC			10.00		53	37	46	55	0	00	29.31	30.30						
22	CLR	NC			10.00		64	57	60	78	0	00	29.35	30.30	22	CLR	NC			10.00		45	38	42	77	0	00	29.32	30.31						
SUNRISE: 0643						OCT 14						SUNSET: 1803						SUNRISE: 0648						OCT 20						SUNSET: 1755					
01	CLR	NC			10.00		59	56	57	90	0	00	29.37	30.32	01	CLR	NC			10.00		41	37	39	86	0	00	29.34	30.33						
04	CLR	NC			10.00		57	56	56	96	0	00	29.35	30.30	04	CLR	NC			10.00		39	37	38	93	0	00	29.35	30.34						
07	CLR	NC			10.00		57	55	56	93	0	00	29.38	30.34	07	CLR	NC			10.00		37	35	36	93	0	00	29.39	30.39						
10	CLR	NC			10.00		68	59	63	73	0	00	29.39	30.34	10	CLR	NC			10.00		53	43	48	69	0	00	29.40	30.39						
13	CLR	NC			10.00		80	60	67	51	3	VR	29.30	30.24	13	CLR	NC			10.00		63	37	50	38	7	26	29.33	30.32						
16	SCT	050			10.00		83	58	67	43	3	VR	29.23	30.18	16	CLR	NC			10.00		66	33	50	29	6	20	29.26	30.24						
19	CLR	NC			10.00		73	62	66	69	0	00	29.24	30.19	19	CLR	NC			10.00		57	40	49	53	0	00	29.27	30.27						
22	CLR	NC			10.00		66	61	63	84	0	00	29.26	30.21	22	CLR	NC			10.00		49	41	45	74	0	00	29.27	30.26						
SUNRISE: 0644						OCT 15						SUNSET: 1802						SUNRISE: 0649						OCT 21						SUNSET: 1754					
01	CLR	NC			10.00		62	59	60	90	0	00	29.25	30.19	01	CLR	NC			10.00		47	41	44	80	0	00	29.27	30.25						
04	CLR	NC			10.00		59	57	58	93	0	00	29.23	30.18	04	CLR	NC			10.00		43	40	42	89	0	00	29.27	30.24						
07	OVC	004			0.25	FG	57	57	57	100	0	00	29.25	30.21	07	CLR	NC			10.00		42	39	41	89	0	00	29.28	30.27						
10	CLR	NC			10.00		69	60	64	73	0	00	29.27	30.23	10	BKN	095			10.00		56	45	50	67	0	00	29.30	30.28						
13	CLR	NC			10.00		78	58	66	50	7	VR	29.22	30.16	13	BKN	065			10.00		67	48	57	51	0	00	29.25	30.22						
16	CLR	NC			10.00		81	53	64	38	6	VR	29.16	30.11	16	OVC	042			10.00		66	48	56	52	8	06	29.23	30.20						
19	CLR	NC			10.00		72	57	63	59	0	00	29.15	30.10	19	CLR	NC			10.00		58	45	51	62	0	00	29.25	30.24						
22	CLR	NC			10.00		65	59	61	81	0	00	29.18	30.14	22	CLR	NC			10.00		52	32	43	47	0	00	29.28	30.26						
SUNRISE: 0644						OCT 16						SUNSET: 1800						SUNRISE: 0650						OCT 22						SUNSET: 1753					
01	CLR	NC			10.00		63	59	61	87	0	00	29.18	30.13	01	CLR	NC			10.00		46	32	40	58	0	00	29.29	30.27						
04	CLR	NC			10.00		62	59	60	90	0	00	29.17	30.11	04	CLR	NC			10.00		41	33	38	73	0	00	29.30	30.28						
07	CLR	NC			8.00		63	60	61	90	0	00	29.18	30.14	07	CLR	NC			10.00		41	31	37	68	3	05	29.35	30.34						
10	SCT	060			10.00		67	61	63	81	5	24	29.20	30.15	10	CLR	NC			10.00		52	30	42	43	8	05	29.37	30.36						
13	BKN	050			10.00		72	62	66	71	5	VR	29.16	30.11	13	CLR	NC			10.00		63	28	47	27	5	VR	29.31	30.29						
16	OVC	075			10.00		75	63	67	66	6	22	29.13	30.06	16	CLR	NC			10.00		66	25	48	21	5	05	29.26	30.24						
19	OVC	028			10.00		73	64	67	74	0	00	29.12	30.06	19	CLR	NC			10.00		52	32	43	47	0	00	29.29	30.29						
22	OVC	060			9.00		70	65	67	84	3	22	29.13	30.08	22	CLR	NC			10.00		45	34	40	65	0	00	29.33	30.32						
SUNRISE: 0645						OCT 17						SUNSET: 1759						SUNRISE: 0651						OCT 23						SUNSET: 1752					
01	OVC	006			4.00	-RA BR	62	61	61	97	0	00	29.13	30.08	01	CLR	NC			10.00		42	35	39	76	0	00	29.34	30.32						
04	OVC	013			10.00		59	57	58	93	0	00	29.12	30.06	04	CLR	NC			10.00		40	36	38	86	0	00	29.36	30.35						
07	OVC	047			8.00	-RA	57	57	57	100	5	07	29.13	30.09	07	CLR	NC			10.00		39	35	37	86	0	00	29.40	30.39						
10	OVC	031			10.00		59	52	55	78	5	04	29.16	30.11	10	CLR	NC			10.00		55	34	45	45	5	05	29.42	30.41						
13	OVC	033			10.00		62	48	54	60	7	06	29.13	30.09	13	CLR	NC			10.00		62	33	48	34	0	00	29.37	30.35						
16	SCT	047			10.00		68	46	56	45	3	VR	29.10	30.05	16	CLR	NC			10.00		65	35	50	33	0	00	29.32	30.30						
19	CLR	NC			10.00		58	45	51	62	0	00	29.12	30.09	19	CLR	NC			10.00		57	42	50	57	0	00	29.31	30.30						
22	CLR	NC			10.00		52	46	49	80	0	00	29.14	30.11	22	OVC	060			10.00		54	44	49	69	0	00	29.32	30.30						
SUNRISE: 0646						OCT 18						SUNSET: 1758						SUNRISE: 0652						OCT 24						SUNSET: 1750					
01	CLR	NC			10.00		49	44	47	83	0	00	29.12	30.09	01	OVC	065			10.00		55	39	47	55	0	00	29.31	30.28						
04	FEW	120			10.00		50	45	48	83	0	00	29.13	30.09	04	CLR	NC			10.00		53	36	45	53	3	01	29.23	30.20						
07	BKN	110			10.00		48	43	46	83	0	00	29.17	30.15	07	OVC	080			8.00	-RA	49	43	46	80	0	00	29.19	30.17						
10	CLR	NC			10.00		56	36	47	47	11	36	29.22	30.20	10	SCT	100			10.00		54	46	50	75	3	VR	29.15	30.13						
13	CLR	NC			10.00		62	35	49	37	8	05	29.20	30.17	13	OVC	026			1.75	+RA BR	55	53	54	93	0	00	29.13	30.09						
16	OVC	060			10.00		59	35	48	41	7	36	29.21	30.19	16	OVC	043			8.00	-RA	51	49	50	93	3	10	29.13	30.11						
19	CLR	NC			10.00		53	37	46	55	0	00	29.26	30.25	19	OVC	050			10.00	-RA	49	48	48	96	3	06	29.09	30.07						
22	CLR	NC			10.00		44	39	42	83	0	00	29.29	30.28	22	OVC	038			10.00		50	49	49	96	0	00	29.07	30.04						

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2008

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 Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL		
SUNRISE: 0653 OCT 25 SUNSET: 1749															
01	OVC	004			2.50	-RA	BR	50	49	49	96	0	00	29.04	30.01
04	OVC	002			1.50	BR		50	50	50	100	0	00	29.03	30.01
07	OVC	026			10.00			50	49	49	96	0	00	29.06	30.04
10	BKN	027			10.00			54	49	51	83	0	00	29.09	30.06
13	OVC	043			10.00			57	47	52	69	3	21	29.06	30.03
16	BKN	055			10.00			62	45	53	54	6	21	28.99	29.96
19	CLR	NC			10.00			53	42	48	66	0	00	29.04	30.01
22	CLR	NC			10.00			45	42	44	89	0	00	29.08	30.06
SUNRISE: 0654 OCT 26 SUNSET: 1748															
01	CLR	NC			10.00			41	39	40	93	0	00	29.08	30.06
04	CLR	NC			10.00			38	36	37	93	0	00	29.10	30.08
07	BKN	005			0.50	FG		37	37	37	100	0	00	29.14	30.14
10	CLR	NC			10.00			49	44	47	83	3	25	29.15	30.14
13	CLR	NC			10.00			62	43	52	50	0	00	29.08	30.05
16	CLR	NC			10.00			68	43	55	41	7	21	29.01	29.98
19	CLR	NC			10.00			58	47	52	67	0	00	29.03	30.01
22	BKN	060			10.00			53	48	50	83	0	00	29.07	30.05
SUNRISE: 0654 OCT 27 SUNSET: 1747															
01	CLR	NC			10.00			47	45	46	93	0	00	29.08	30.05
04	OVC	075			10.00			50	16	37	26	6	VR	29.17	30.14
07	FEW	090			10.00			45	10	33	24	6	27	29.23	30.21
10	CLR	NC			10.00			46	15	35	29	7	VR	29.25	30.24
13	BKN	060			10.00			51	24	40	35	6	VR	29.22	30.21
16	OVC	060			10.00			45	26	37	47	5	28	29.27	30.26
19	OVC	090			10.00			44	29	38	56	6	29	29.28	30.28
22	OVC	085			10.00			43	29	37	58	5	28	29.30	30.30
SUNRISE: 0655 OCT 28 SUNSET: 1746															
01	OVC	080			10.00	-RA		41	32	37	70	5	VR	29.28	30.28
04	OVC	065			10.00	-RA		38	34	36	86	0	00	29.27	30.27
07	OVC	085			10.00			38	28	34	67	9	32	29.31	30.32
10	OVC	041			10.00			42	29	37	60	0	00	29.37	30.38
13	FEW	060			10.00			46	24	37	42	0	00	29.34	30.34
16	BKN	060			10.00			50	23	39	35	5	VR	29.31	30.31
19	FEW	055			10.00			44	26	37	49	0	00	29.33	30.34
22	CLR	NC			10.00			39	28	35	65	3	24	29.34	30.35
SUNRISE: 0656 OCT 29 SUNSET: 1745															
01	CLR	NC			10.00			31	28	30	89	0	00	29.32	30.33
04	CLR	NC			10.00			31	28	30	89	0	00	29.29	30.30
07	CLR	NC			10.00			30	26	29	85	0	00	29.29	30.30
10	CLR	NC			10.00			44	25	36	47	3	VR	29.32	30.33
13	CLR	NC			10.00			54	22	41	29	6	24	29.25	30.25
16	CLR	NC			10.00			58	18	42	21	8	28	29.21	30.21
19	CLR	NC			10.00			48	26	39	42	0	00	29.28	30.29
22	CLR	NC			10.00			40	30	36	68	0	00	29.34	30.35
SUNRISE: 0657 OCT 30 SUNSET: 1744															
01	CLR	NC			10.00			35	30	33	82	0	00	29.36	30.36
04	CLR	NC			10.00			31	28	30	89	0	00	29.40	30.40
07	CLR	NC			10.00			30	29	30	96	0	00	29.48	30.49
10	CLR	NC			10.00			46	31	40	56	0	00	29.54	30.55
13	CLR	NC			10.00			61	30	47	31	6	08	29.52	30.52
16	CLR	NC			10.00			65	27	48	24	0	00	29.48	30.48
19	CLR	NC			10.00			50	34	43	54	0	00	29.49	30.52
22	CLR	NC			10.00			40	34	37	79	0	00	29.53	30.54

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		
SUNRISE: 0658 OCT 31 SUNSET: 1743															
01	CLR	NC			10.00			36	32	34	85	0	00	29.55	30.55
04	CLR	NC			10.00			34	31	33	89	0	00	29.58	30.58
07	CLR	NC			10.00			32	30	31	92	0	00	29.62	30.64
10	CLR	NC			10.00			49	36	43	61	0	00	29.63	30.65
13	CLR	NC			10.00			62	34	49	35	0	00	29.56	30.56
16	CLR	NC			10.00			66	32	50	28	5	VR	29.48	30.47
19	CLR	NC			10.00			52	37	45	57	0	00	29.48	30.49
22	CLR	NC			10.00			43	37	40	79	0	00	29.49	30.49

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.

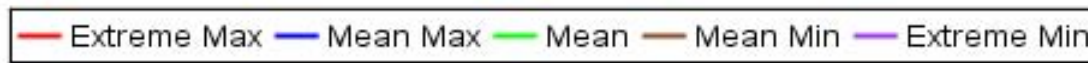
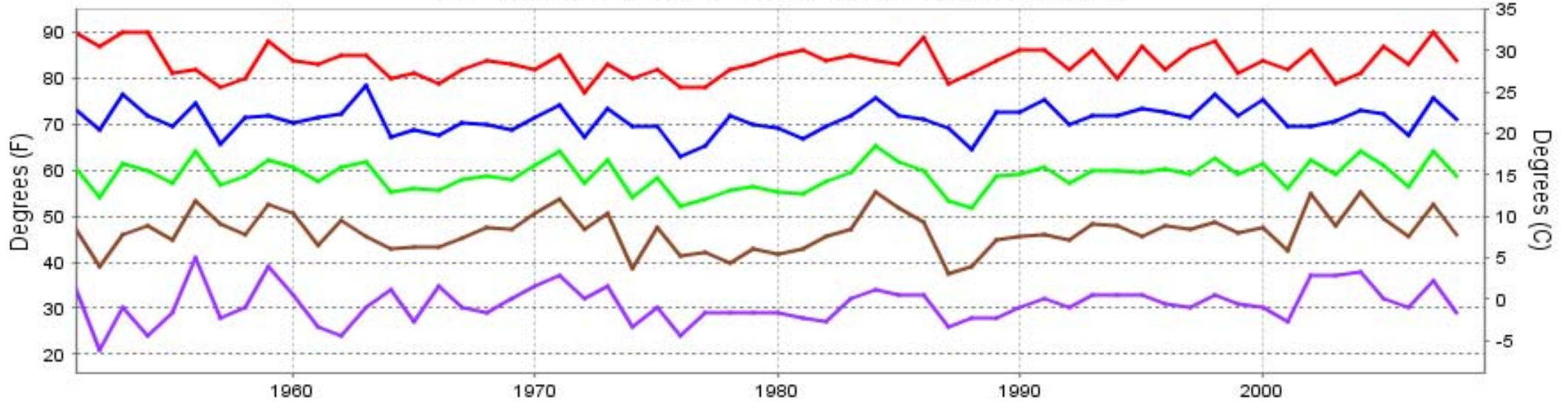
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

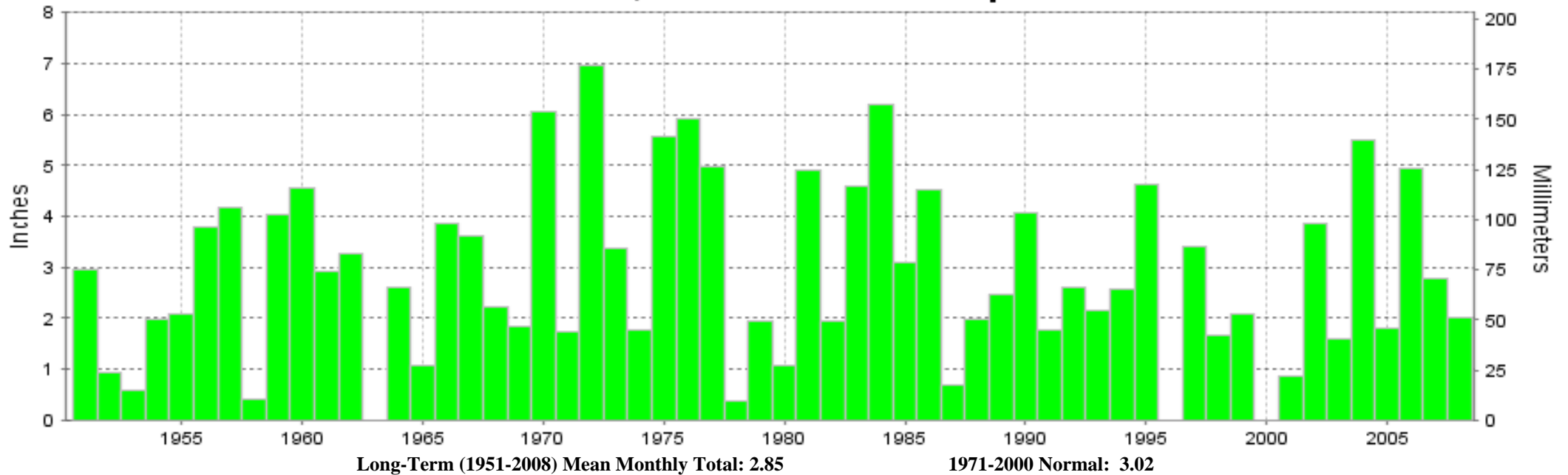
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			51	46	49	85	29.22	30.18	8.99	0	xxx	xx
02			50	46	48	86	29.22	30.18	9.43	1	xx	xx
03			50	45	48	86	29.22	30.18	9.21	1	2	02
04			49	44	47	86	29.22	30.18	8.80	1	2	04
05			49	44	46	86	29.23	30.20	8.90	1	xxx	xx
06			48	44	46	87	29.24	30.21	8.34	1	2	04
07			48	44	46	87	29.25	30.23	7.73	1	2	01
08			50	45	47	85	29.27	30.24	7.65	2	3	07
09			54	46	50	75	29.28	30.25	8.99	2	4	08
10			59	46	52	63	29.27	30.25	9.72	3	3	07
11			62	45	54	55	29.27	30.24	9.73	4	1	03
12			66	45	55	49	29.25	30.22	9.73	3	2	29
13			67	44	55	46	29.23	30.19	9.54	4	2	07
14			69	44	56	44	29.20	30.17	9.77	4	1	32
15			70	43	56	42	29.19	30.16	10.00	5	1	33
16			70	43	56	41	29.19	30.15	9.94	4	1	32
17			69	43	55	42	29.19	30.15	9.90	4	1	35
18			66	44	55	48	29.19	30.16	10.00	2	1	30
19			61	46	53	59	29.20	30.18	9.97	0	xx	xx
20			58	47	52	67	29.21	30.19	9.97	0	xxx	xx
21			56	47	51	74	29.22	30.20	9.77	0	2	34
22			54	47	51	77	29.23	30.20	9.97	1	2	33
23			53	47	50	80	29.23	30.20	9.68	0	xx	xx
24			52	46	49	83	29.23	30.20	9.58	1	2	04

OAK RIDGE, TN OCTOBER Temperatures



Long-Term (1951-2008) Mean: 58.8
 1971-2000 Normal: 58.4

OAK RIDGE, TN OCTOBER Precipitation



Long-Term (1951-2008) Mean Monthly Total: 2.85

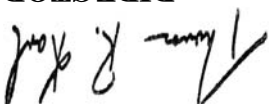
1971-2000 Normal: 3.02



OCTOBER 2008
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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