



OCTOBER 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	81	48	65	1	48	55	0	0				0.00	29.33	30.28	0.8	26	1.4	13	27	8	25	01		
02	84	51	68	4	50	57	0	3				0.00	29.22	30.16	1.0	08	1.3	12	09	8	09	02		
03	85	56	71	7	58	63	0	6				0.00	29.10	30.05	0.7	14	1.8	10	22	7	20	03		
04	86	68	77	14	66	68	0	12	RA BR			0.35	29.15	30.09	0.5	11	2.0	15	06	9	17	04		
05	86	69	78*	15	67	70	0	13	FG+ FG BR			0.00	29.21	30.15	0.1	11	0.3	9	07	7	07	05		
06	89	64	77	15	62	67	0	12	BR			0.00	29.19	30.12	1.0	07	1.4	15	07	10	06	06		
07	90*	61	76	14	61	66	0	11				0.00	29.13	30.07	0.6	08	1.1	13	06	8	06	07		
08	88	62	75	14	60	65	0	10	BR			0.00	29.10	30.03	0.3	22	0.8	12	27	9	14	08		
09	75	62	69	8	63	65	0	4	RA BR			0.05	29.05	29.98	0.2	36	0.2	10	01	7	36	09		
10	77	54	66	5	47	56	0	1	FG+ FG BR			0.00	28.95	29.89	2.4	29	4.1	23	26	14	26	10		
11	65	43	54	-6	38	46	11	0				0.00	28.95	29.93	0.9	33	2.1	17	33	9	36	11		
12	68	43	56	-4	42	48	9	0				0.00	29.02	30.00			0.6	12	28	8	28	12		
13	72	42	57	-2	44	50	8	0	FG+ BR			0.00	29.08	30.06	0.4	15	0.6	9	19	7	18	13		
14	80	48	64	5	47	54	1	0				0.00	29.14	30.11	0.4	07	1.1	12	04	8	05	14		
15	81	50	66	7	50	56	0	1				0.00	29.13	30.10	0.2	22	0.7	13	20	9	21	15		
16	77	55	66	8	58	60	0	1	RA BR			0.26	29.10	30.06	0.4	28	1.0	15	19	12	17	16		
17	82	64	73	15	61	65	0	8	RA BR			T	29.07	30.00	0.8	18	1.9	15	21	10	19	17		
18	77	64	71	13	63	66	0	6	RA BR			0.08	28.87	29.78	2.7	21	3.6	20	22	14	21	18		
19	76	57	67	10	54	60	0	2	RA BR			0.50	28.77	29.71	3.0	22	4.7	25	22	18*	20	19		
20	73	49	61	4	44	51	4	0				0.00	29.03	30.01	1.0	24	1.8	13	27	9	18	20		
21	80	44	62	6	45	52	3	0				0.00	29.18	30.16	0.5	18	1.0	13	18	8	19	21		
22	63	49	56	0	54	56	9	0	RA BR			0.24	29.15	30.09			0.0	7	06	5	06	22		
23	76	61	69	13	64	65	0	4	RA BR			1.19	28.85	29.80	1.3	22	1.9	22	27	12	26	23		
24	68	58	63	8	57	59	2	0	RA			0.08	28.85	29.80	1.4	06	1.8	13	05	8	06	24		
25	68	52	60	5	50	54	5	0	RA			0.03	28.94	29.93	0.8	26	2.5	15	26	10	27	25		
26	72	52	62	7	50	54	3	0				0.00	29.11	30.09	0.9	19	4.1	25*	19	16	19	26		
27	63	44	54	0	43	49	11	0				0.00	29.30	30.31	0.8	36	1.8	16	01	10	01	27		
28	65	45	55	1	42	49	10	0				0.00	29.45	30.44	2.2	05	3.8	20	05	12	06	28		
29	65	38	52	-1	36	43	13	0				0.00	29.49	30.48	0.8	09	0.9	12	08	9	06	29		
30	68	36*	52*	-1	38	44	13	0	FG+ FG BR			0.00	29.41	30.41	0.1	08	0.1	9	06	6	07	30		
31	71	37	54	1	42	47	11	0	FG+ FG BR			0.00	29.29	30.27	0.3	22	0.8	13	22	9	21	31		
75.8		52.5	64.2	Σ	51.7	56.8	3.6	3.0	< MONTHLY AVERAGES TOTALS >				2.78	29.11	30.08	0.2	21	1.7	< MONTHLY AVERAGES					
4.7	6.8	5.8	<-----DEPARTURE FROM NORMAL----->						-0.24	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.19 DATE : 23				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY				SEASON TO DATE					GREATEST 24-HR SNOWFALL :				MAXIMUM : 30.57 29 1002											
TOTAL DEPARTURE				TOTAL DEPARTURE					GREATEST SNOW DEPTH :				MINIMUM : 29.65 19 0154											
HEATING :	113	-117			114	-146	NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 :	1	MINIMUM TEMP <= 32 :	0	PRECIPITATION >= 0.01 INCH :	9								
COOLING :	94	171			1933	633	MAXIMUM TEMP <= 32 :	0	MINIMUM TEMP <= 0 :	0	PRECIPITATION >= 0.10 INCH :	5	THUNDERSTORMS :	0	HEAVY FOG :	5	SNOWFALL >= 1.0 INCH :							

OCTOBER 2007
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 2007

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24				
01													01												01	0.00	0.00		
02													02												02	0.00	0.00		
03													03												03	0.00	0.00		
04									T		T		04				T	0.22	0.05	0.07	0.01			04	0.35	0.35			
05													05											05	0.00	0.00			
06													06											06	0.00	0.00			
07													07											07	0.00	0.00			
08													08											08	0.00	0.00			
09												0.01	09	T	0.03	0.01			T				09	0.05	0.05				
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			0.23	T		T	T	T		0.02	0.01	16	0.26	0.26		
17			T										17											17	T	T			
18					T	0.02					T	0.06	18	T				T			T			18	0.08	0.08			
19	T	T	0.16	0.33	0.01	T							19											19	0.50	0.50			
20													20											20	0.00	0.00			
21													21											21	0.00	0.00			
22													22	0.07	0.05	T	0.01	0.03		0.04			T	0.01	0.01	22	0.24	0.24	
23	T	0.04	0.10	0.02	0.01	0.02	T						23	0.01		0.04	0.21	0.13	0.55	0.03	0.01		T	0.01	T	T	23	1.19	1.19
24		T	0.01	T									24	0.01										24	0.08	0.08			
25			T	0.01	0.02	T							25											25	0.03	0.03			
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)	0.18	0.23	0.27	0.34	0.46	0.52	0.57	0.58	0.61	0.69	0.82	0.90
Ending Date	19	19	23	23	23	23	23	23	23	23	23	23
Ending Time (Hr/Min)	0338	0342	1740	1739	1740	1759	1803	1814	1803	1740	1803	1803

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 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							5.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							1.00	10.00	
05							0.50	10.00	
06							6.00	10.00	
07							7.00	10.00	
08							6.00	10.00	
09							2.50	10.00	
10							0.25	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							0.25	10.00	
14							7.00	10.00	
15							10.00	10.00	
16							3.00	10.00	
17							1.50	10.00	
18							4.00	10.00	
19							5.00	10.00	
20							10.00	10.00	
21							9.00	10.00	
22							2.50	10.00	
23							1.75	10.00	
24							9.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							0.25	10.00	
31							0.25	10.00	
MONTHLY AVGS							5.86	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				
4		11			15				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 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		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: 0632						OCT 01						SUNSET: 1821						SUNRISE: 0637						OCT 07						SUNSET: 1812					
01	CLR	NC			10.00		56	49	52	78	0	00	29.36	30.32	01	CLR	NC			10.00		66	61	63	84	0	00	29.15	30.08						
04	CLR	NC			10.00	BR	51	47	49	86	0	00	29.37	30.32	04	CLR	NC			10.00		63	60	61	90	0	00	29.14	30.08						
07	CLR	NC			5.00		49	46	48	89	0	00	29.38	30.35	07	CLR	NC			7.00		62	59	60	90	0	00	29.19	30.13						
10	CLR	NC			10.00		67	48	57	51	0	00	29.39	30.35	10	CLR	NC			10.00		75	62	67	64	5	14	29.20	30.14						
13	CLR	NC			10.00		78	46	60	32	6	VR	29.33	30.28	13	CLR	NC			10.00		86	61	70	43	6	06	29.14	30.07						
16	CLR	NC			10.00		80	47	61	31	7	26	29.26	30.22	16	CLR	NC			10.00		88	58	69	36	3	VR	29.09	30.01						
19	CLR	NC			10.00		70	48	58	46	0	00	29.25	30.22	19	CLR	NC			10.00		79	61	68	54	0	00	29.09	30.02						
22	CLR	NC			10.00		60	49	54	67	0	00	29.26	30.22	22	CLR	NC			10.00		71	62	65	73	0	00	29.12	30.05						
SUNRISE: 0633						OCT 02						SUNSET: 1820						SUNRISE: 0638						OCT 08						SUNSET: 1811					
01	CLR	NC			10.00		55	49	52	80	0	00	29.26	30.22	01	CLR	NC			10.00		67	62	64	84	0	00	29.13	30.05						
04	CLR	NC			10.00		52	49	50	90	0	00	29.26	30.22	04	CLR	NC			8.00		63	60	61	90	0	00	29.13	30.05						
07	CLR	NC			10.00		51	48	49	90	0	00	29.30	30.27	07	CLR	NC			6.00	BR	62	59	60	90	0	00	29.14	30.09						
10	CLR	NC			10.00		69	53	60	57	0	00	29.31	30.27	10	CLR	NC			10.00		75	62	67	64	0	00	29.15	30.09						
13	CLR	NC			10.00		79	50	62	36	0	00	29.22	30.17	13	CLR	NC			10.00		86	62	70	45	3	VR	29.10	30.03						
16	CLR	NC			10.00		83	49	63	31	7	10	29.13	30.08	16	CLR	NC			10.00		88	59	69	38	0	00	29.05	29.98						
19	CLR	NC			10.00		73	52	61	48	0	00	29.12	30.07	19	CLR	NC			10.00		78	60	67	54	0	00	29.05	29.98						
22	CLR	NC			10.00		62	53	57	73	0	00	29.13	30.09	22	CLR	NC			10.00		69	61	64	76	0	00	29.08	30.01						
SUNRISE: 0633						OCT 03						SUNSET: 1818						SUNRISE: 0638						OCT 09						SUNSET: 1810					
01	CLR	NC			10.00		58	53	55	84	0	00	29.13	30.07	01	CLR	NC			10.00		65	60	62	84	0	00	29.07	30.00						
04	CLR	NC			10.00		57	53	55	87	0	00	29.13	30.06	04	CLR	NC			10.00		63	59	61	87	0	00	29.06	29.99						
07	CLR	NC			10.00		57	53	55	87	0	00	29.15	30.10	07	SCT	110			9.00		63	59	61	87	0	00	29.08	30.02						
10	OVC	055			10.00		73	57	63	57	0	00	29.15	30.10	10	SCT	100			10.00		71	62	65	73	0	00	29.08	30.02						
13	OVC	055			10.00		83	59	68	44	3	VR	29.10	30.04	13	SCT	090			9.00	-RA	72	66	68	82	0	00	29.06	30.00						
16	BKN	080			10.00		85	60	69	43	3	19	29.07	30.00	16	BKN	019			10.00		74	67	69	79	0	00	29.00	29.94						
19	CLR	NC			10.00		79	61	68	54	0	00	29.08	30.02	19	BKN	085			10.00		72	67	69	84	0	00	29.01	29.95						
22	BKN	120			10.00		72	63	66	73	0	00	29.12	30.05	22	CLR	NC			5.00	BR	68	66	67	93	0	00	29.02	29.96						
SUNRISE: 0634						OCT 04						SUNSET: 1817						SUNRISE: 0639						OCT 10						SUNSET: 1808					
01	OVC	110			10.00		69	63	65	81	0	00	29.12	30.04	01	OVC	007			0.25	FG	63	61	62	93	0	00	29.01	29.95						
04	OVC	055			10.00		69	63	65	81	0	00	29.13	30.05	04	OVC	007			0.25	FG	59	58	58	97	0	00	28.99	29.93						
07	BKN	070			10.00		68	64	65	87	0	00	29.15	30.09	07	CLR	NC			9.00		56	53	54	90	0	00	28.99	29.94						
10	OVC	070			10.00		73	66	68	79	5	VR	29.19	30.13	10	CLR	NC			10.00		67	54	59	63	3	VR	28.98	29.92						
13	OVC	070			10.00		79	67	71	67	3	VR	29.16	30.10	13	CLR	NC			10.00		75	44	58	33	11	26	28.93	29.86						
16	FEW	038			10.00		84	65	71	53	0	00	29.10	30.03	16	CLR	NC			10.00		75	38	56	26	9	28	28.87	29.81						
19	OVC	070			4.00	RA BR	72	68	69	87	0	00	29.15	30.10	19	CLR	NC			10.00		68	38	53	33	6	28	28.89	29.84						
22	SCT	003			6.00	BR	71	69	70	93	0	00	29.17	30.11	22	CLR	NC			10.00		60	39	50	46	6	34	28.94	29.89						
SUNRISE: 0635						OCT 05						SUNSET: 1815						SUNRISE: 0640						OCT 11						SUNSET: 1807					
01	VV	001			0.50	FG	70	68	69	93	0	00	29.19	30.13	01	CLR	NC			10.00		52	39	46	61	0	00	28.95	29.90						
04	OVC	006			0.75	BR	69	68	68	97	0	00	29.19	30.12	04	CLR	NC			10.00		46	39	43	77	0	00	28.95	29.90						
07	OVC	005			0.75	BR	69	68	68	97	0	00	29.24	30.18	07	CLR	NC			10.00		43	38	41	83	0	00	28.97	29.93						
10	CLR	NC			10.00		78	67	71	69	3	VR	29.27	30.20	10	BKN	039			10.00		56	36	47	47	3	VR	29.00	29.96						
13	CLR	NC			10.00		82	66	71	58	0	00	29.24	30.17	13	SCT	049			10.00		61	37	49	41	3	VR	28.96	29.92						
16	OVC	075			10.00		83	64	71	53	0	00	29.18	30.11	16	SCT	065			10.00		63	36	50	37	7	35	28.92	29.89						
19	CLR	NC			10.00		77	68	71	74	0	00	29.18	30.12	19	OVC	050			10.00		59	39	49	48	3	36	28.97	29.94						
22	OVC	085			10.00		73	67	69	82	0	00	29.22	30.15	22	CLR	NC			10.00		52	40	46	64	0	00	29.01	29.98						
SUNRISE: 0636						OCT 06						SUNSET: 1814						SUNRISE: 0641						OCT 12						SUNSET: 1806					
01	CLR	NC			10.00		69	66	67	90	0	00	29.22	30.15	01	CLR	NC			10.00		46	40	43	80	0	00	29.01	29.98						
04	CLR	NC			6.00	BR	66	64	65	93	0	00	29.22	30.15	04	FEW	048			10.00		44	40	42	86	0	00	29.01	29.98						
07	CLR	NC			9.00		65	62	63	90	0	00	29.24	30.18	07	OVC	050			10.00		47	42	45	83	0	00	29.05	30.02						
10	CLR	NC			10.00		76	63	68	64	0	00	29.26	30.19	10	OVC	055			10.00		57	45	51	64	3	VR	29.06	30.03						
13	CLR	NC			10.00		85	63	71	48	5	06	29.19	30.12	13	BKN	050			10.00		63	41	52	45	0	00	29.03	30.00						
16	BKN	060			10.00		88	59	69	38	5	VR	29.13	30.05	16	FEW	055			10.00		66	41	53	40	3	VR	28.99	29.96						
19	CLR	NC			10.00		77	61	67	58	0	00	29.13	30.06	19	CLR	NC			10.00		58	44	51	60	0	00	29.00	29.97						
22	CLR	NC			10.00		69	62	65	79	0	00	29.14	30.08	22	CLR	NC			10.00		50	44	47	80	0	00	29.04	30.01						

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
OCTOBER 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			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)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0642 OCT 13 SUNSET: 1804														SUNRISE: 0647 OCT 19 SUNSET: 1756															
01	CLR	NC			10.00		47	43	45	86	0	00	29.06	30.03	01	OVC	055			10.00	-RA	75	65	69	71	13	20	28.76	29.67
04	CLR	NC			9.00	FG	44	41	43	89	0	00	29.06	30.03	04	OVC	080			9.00	-RA	66	61	63	84	6	VR	28.76	29.68
07	VV	001			0.25		43	42	43	96	0	00	29.12	30.10	07	SCT	013			10.00		64	62	63	93	0	00	28.77	29.69
10	CLR	NC			10.00		55	45	50	69	5	07	29.14	30.12	10	BKN	090			10.00		67	61	63	81	7	VR	28.79	29.72
13	CLR	NC			10.00		68	42	54	39	0	00	29.10	30.06	13	CLR	NC			10.00		71	50	59	48	7	23	28.77	29.69
16	CLR	NC			10.00		71	43	56	37	3	18	29.05	30.01	16	CLR	NC			10.00		75	46	59	36	9	20	28.74	29.67
19	CLR	NC			10.00		62	47	54	58	0	00	29.08	30.05	19	CLR	NC			10.00		67	46	56	47	0	00	28.79	29.73
22	CLR	NC			10.00		54	47	50	77	0	00	29.10	30.07	22	CLR	NC			10.00		62	48	54	60	3	VR	28.86	29.81
SUNRISE: 0643 OCT 14 SUNSET: 1803														SUNRISE: 0648 OCT 20 SUNSET: 1755															
01	CLR	NC			10.00		51	47	49	86	0	00	29.13	30.09	01	CLR	NC			10.00		58	48	53	70	0	00	28.90	29.85
04	CLR	NC			10.00		49	46	48	89	0	00	29.13	30.09	04	CLR	NC			10.00		52	48	50	86	0	00	28.96	29.91
07	CLR	NC			7.00		49	46	48	89	0	00	29.16	30.14	07	CLR	NC			10.00		49	46	47	89	0	00	29.03	29.99
10	CLR	NC			10.00		65	46	55	50	3	VR	29.20	30.17	10	CLR	NC			10.00		63	48	55	58	6	VR	29.09	30.04
13	CLR	NC			10.00		76	45	59	33	0	00	29.15	30.11	13	CLR	NC			10.00		70	35	53	28	3	19	29.08	30.03
16	CLR	NC			10.00		80	45	60	29	6	VR	29.12	30.07	16	CLR	NC			10.00		73	38	55	28	7	27	29.07	30.02
19	CLR	NC			10.00		69	50	58	51	0	00	29.13	30.09	19	CLR	NC			10.00		61	44	52	54	0	00	29.10	30.08
22	CLR	NC			10.00		59	50	54	72	0	00	29.14	30.11	22	CLR	NC			10.00		53	46	49	77	0	00	29.14	30.11
SUNRISE: 0644 OCT 15 SUNSET: 1802														SUNRISE: 0649 OCT 21 SUNSET: 1754															
01	CLR	NC			10.00		55	50	52	83	0	00	29.14	30.09	01	CLR	NC			10.00		48	44	46	86	0	00	29.15	30.12
04	CLR	NC			10.00		52	49	50	90	0	00	29.16	30.11	04	CLR	NC			10.00		46	44	45	93	0	00	29.17	30.14
07	CLR	NC			10.00		50	47	48	90	0	00	29.20	30.17	07	CLR	NC			10.00		44	41	43	89	0	00	29.22	30.20
10	CLR	NC			10.00		69	53	60	57	0	00	29.21	30.17	10	CLR	NC			10.00		60	45	52	58	0	00	29.25	30.22
13	CLR	NC			10.00		77	49	61	37	0	00	29.15	30.11	13	CLR	NC			10.00		74	43	57	33	6	17	29.20	30.16
16	CLR	NC			10.00		79	48	61	34	5	22	29.10	30.04	16	CLR	NC			10.00		79	43	59	28	0	00	29.14	30.10
19	CLR	NC			10.00		69	53	60	57	0	00	29.07	30.02	19	CLR	NC			10.00		65	51	57	61	0	00	29.18	30.16
22	CLR	NC			10.00		60	53	56	78	0	00	29.13	30.07	22	CLR	NC			10.00		58	50	54	75	0	00	29.22	30.19
SUNRISE: 0644 OCT 16 SUNSET: 1800														SUNRISE: 0650 OCT 22 SUNSET: 1753															
01	CLR	NC			10.00		57	52	54	83	0	00	29.12	30.06	01	CLR	NC			10.00		52	48	50	86	0	00	29.22	30.18
04	BKN	090			10.00		57	52	54	83	0	00	29.10	30.05	04	CLR	NC			10.00		50	47	48	90	0	00	29.21	30.17
07	BKN	047			7.00		56	52	54	87	0	00	29.12	30.07	07	BKN	050			10.00		51	47	49	86	0	00	29.22	30.19
10	OVC	090			10.00		68	55	60	63	0	00	29.13	30.09	10	OVC	047			10.00		59	52	55	78	0	00	29.21	30.18
13	BKN	085			10.00		74	60	65	62	6	26	29.10	30.06	13	OVC	050			6.00	-RA	62	57	59	84	0	00	29.14	30.11
16	OVC	080			7.00		69	65	66	87	0	00	29.08	30.03	16	OVC	055			4.00	-RA BR	62	59	60	90	0	00	29.07	30.04
19	OVC	080			5.00	BR	66	63	64	90	3	35	29.09	30.04	19	OVC	075			3.00	-RA BR	62	60	61	93	0	00	29.04	30.00
22	OVC	055			4.00	BR	65	63	64	93	0	00	29.10	30.05	22	OVC	110			2.50	BR	62	60	61	93	0	00	29.00	29.95
SUNRISE: 0645 OCT 17 SUNSET: 1759														SUNRISE: 0651 OCT 23 SUNSET: 1752															
01	BKN	120			2.50	BR	65	63	64	93	0	00	29.13	30.06	01	OVC	080			3.00	BR	62	61	61	97	0	00	28.93	29.88
04	OVC	041			1.50	BR	64	62	63	93	0	00	29.10	30.05	04	OVC	100			4.00	-RA BR	63	61	62	93	0	00	28.88	29.83
07	BKN	085			3.00	BR	64	62	63	93	0	00	29.13	30.09	07	OVC	110			7.00		64	62	63	93	0	00	28.84	29.79
10	SCT	038			8.00		70	62	65	76	5	07	29.14	30.09	10	OVC	050			10.00		72	67	69	84	3	26	28.87	29.81
13	FEW	041			10.00		79	60	67	52	0	00	29.07	30.00	13	OVC	060			10.00	-RA	73	69	70	87	3	21	28.82	29.76
16	BKN	120			10.00		80	60	67	51	7	VR	29.00	29.93	16	OVC	050			1.75	+RA BR	71	70	70	97	0	00	28.77	29.71
19	CLR	NC			10.00		76	59	65	56	6	20	28.97	29.90	19	BKN	090			10.00		66	62	64	87	7	25	28.84	29.79
22	CLR	NC			10.00		70	60	64	71	0	00	28.97	29.91	22	OVC	055			10.00		61	59	60	93	3	17	28.92	29.86
SUNRISE: 0646 OCT 18 SUNSET: 1758														SUNRISE: 0652 OCT 24 SUNSET: 1750															
01	CLR	NC			10.00		66	60	62	81	0	00	28.91	29.84	01	OVC	060			10.00		62	59	60	90	0	00	28.89	29.83
04	BKN	065			10.00		65	60	62	84	0	00	28.90	29.83	04	OVC	080			10.00		59	55	57	87	5	08	28.85	29.80
07	OVC	070			5.00	BR	65	63	64	93	0	00	28.91	29.84	07	OVC	085			10.00		59	56	57	90	0	00	28.85	29.80
10	OVC	060			10.00	-RA	72	63	66	73	9	21	28.91	29.85	10	OVC	013			10.00		60	57	58	90	0	00	28.88	29.83
13	OVC	034			10.00		74	64	68	71	7	21	28.85	29.78	13	BKN	036			10.00		63	58	60	84	0	00	28.84	29.79
16	OVC	037			10.00		76	65	69	69	6	VR	28.80	29.73	16	FEW	019			10.00		66	57	61	73	0	00	28.80	29.75
19	OVC	075			10.00		76	64	68	67	6	VR	28.79	29.73	19	OVC	065			10.00		64	60	62	87	0	00	28.84	29.79
22	OVC	065			10.00		76	64	68	67	5	20	28.76	29.68	22	BKN	033			10.00		63	58	60	84	6	06	28.85	29.80

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2007

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0653 OCT 25 SUNSET: 1749													
01	OVC	019				61	56	58	84	5	VR	28.83	29.78
04	OVC	013			-RA	59	56	57	90	0	00	28.83	29.78
07	OVC	080				57	53	55	87	0	00	28.90	29.85
10	CLR	NC				59	47	53	65	8	28	28.97	29.93
13	FEW	070				63	46	54	54	6	VR	29.00	29.95
16	CLR	NC				67	46	56	47	3	VR	28.99	29.94
19	CLR	NC				58	49	53	72	0	00	29.05	30.01
22	FEW	060				53	48	50	83	0	00	29.10	30.07
SUNRISE: 0654 OCT 26 SUNSET: 1748													
01	OVC	065				52	49	50	90	3	06	29.12	30.08
04	OVC	070				53	50	51	90	0	00	29.12	30.08
07	OVC	080				54	50	52	86	0	00	29.13	30.10
10	BKN	075				62	51	56	67	5	VR	29.15	30.12
13	OVC	070				71	50	59	48	3	22	29.10	30.06
16	SCT	070				68	54	60	61	7	VR	29.08	30.04
19	BKN	046				63	52	57	68	3	22	29.13	30.09
22	BKN	048				57	45	51	64	5	VR	29.18	30.15
SUNRISE: 0654 OCT 27 SUNSET: 1747													
01	CLR	NC				53	44	49	72	5	21	29.21	30.18
04	CLR	NC				47	43	45	86	0	00	29.25	30.22
07	CLR	NC				44	41	43	89	0	00	29.31	30.29
10	CLR	NC				54	43	49	67	0	00	29.35	30.32
13	SCT	037				60	43	51	54	3	17	29.32	30.29
16	CLR	NC				63	44	53	50	6	33	29.32	30.30
19	OVC	035				57	44	50	62	0	00	29.39	30.37
22	OVC	031				56	45	50	67	0	00	29.43	30.41
SUNRISE: 0655 OCT 28 SUNSET: 1746													
01	OVC	042				55	46	50	72	3	07	29.42	30.40
04	OVC	038				54	47	50	77	6	06	29.42	30.39
07	OVC	038				54	47	50	77	5	VR	29.45	30.43
10	OVC	046				59	47	53	65	5	VR	29.49	30.47
13	BKN	042				62	43	52	50	5	05	29.48	30.45
16	CLR	NC				63	39	51	41	7	VR	29.45	30.42
19	CLR	NC				54	39	47	57	0	00	29.48	30.47
22	CLR	NC				49	35	43	59	0	00	29.49	30.48
SUNRISE: 0656 OCT 29 SUNSET: 1745													
01	CLR	NC				44	35	40	71	0	00	29.49	30.48
04	CLR	NC				40	35	38	82	0	00	29.49	30.48
07	CLR	NC				38	34	36	86	0	00	29.52	30.53
10	CLR	NC				50	31	42	48	8	09	29.57	30.57
13	CLR	NC				60	35	48	39	0	00	29.49	30.49
16	CLR	NC				64	36	50	36	3	08	29.45	30.44
19	CLR	NC				52	41	47	66	0	00	29.45	30.45
22	CLR	NC				43	39	41	86	0	00	29.46	30.46
SUNRISE: 0657 OCT 30 SUNSET: 1744													
01	CLR	NC				38	35	37	89	0	00	29.45	30.44
04	CLR	NC				36	34	35	92	0	00	29.44	30.43
07	OVC	006			FG	37	36	37	96	0	00	29.49	30.49
10	CLR	NC				48	42	45	80	0	00	29.50	30.50
13	CLR	NC				63	39	51	41	0	00	29.42	30.41
16	CLR	NC				67	37	52	33	0	00	29.35	30.33
19	CLR	NC				54	41	48	62	0	00	29.34	30.34
22	CLR	NC				46	40	43	80	0	00	29.36	30.36

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 Clد 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				41	38	40	89	0	00	29.35	30.34
04	SCT	008			BR	38	36	37	93	0	00	29.34	30.32
07	OVC	005			FG	37	36	37	96	0	00	29.36	30.35
10	CLR	NC				51	43	47	74	3	06	29.36	30.35
13	FEW	042				66	42	54	42	0	00	29.28	30.26
16	SCT	060				70	46	57	42	3	24	29.20	30.19
19	CLR	NC				59	49	54	70	0	00	29.20	30.19
22	CLR	NC				52	47	49	83	0	00	29.22	30.20

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.

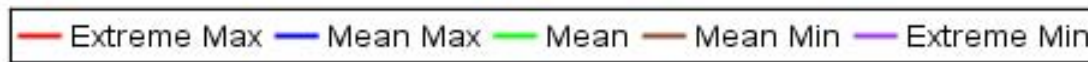
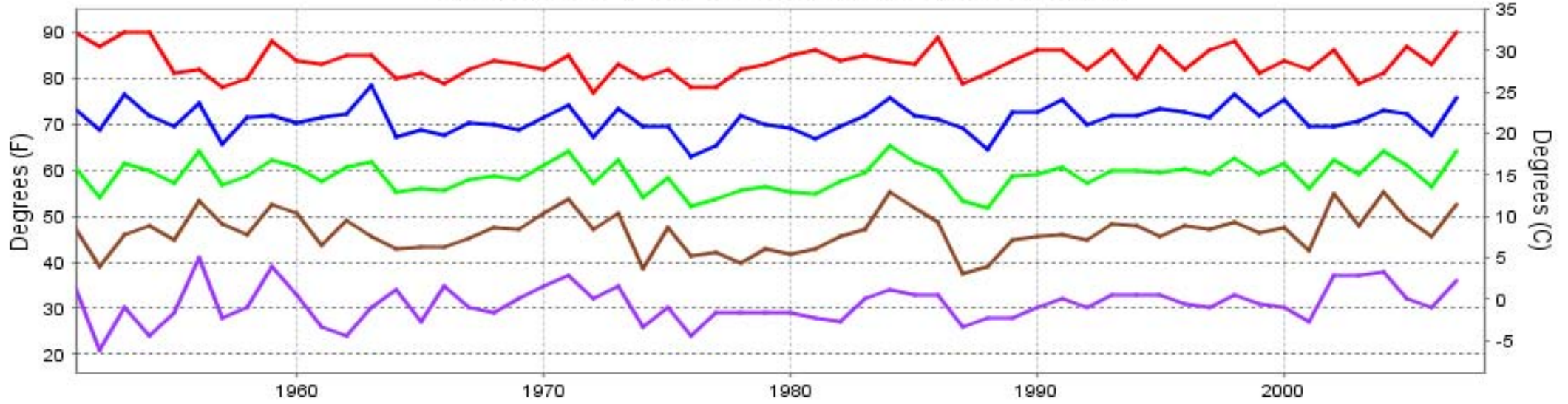
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

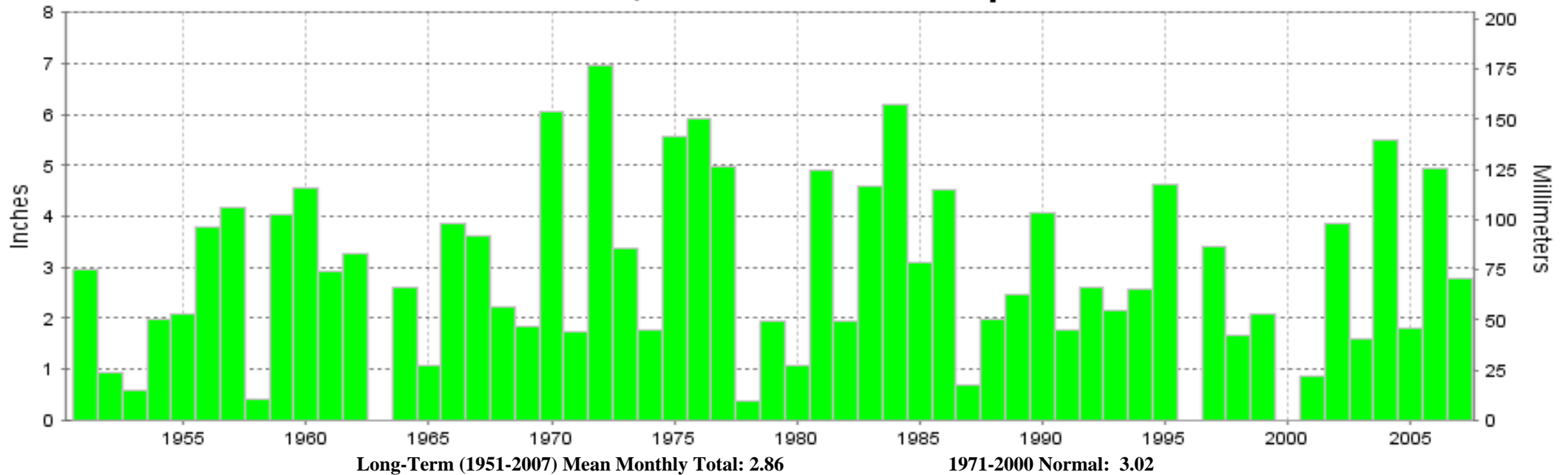
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			57	52	54	83	29.12	30.07	8.91	1	1	22
02			57	52	54	85	29.12	30.07	9.15	1	XX	XX
03			55	52	53	87	29.12	30.07	8.92	0	XX	XX
04			55	51	53	88	29.12	30.07	8.37	1	XX	XX
05			54	51	53	89	29.13	30.08	8.16	1	XX	XX
06			54	51	52	89	29.14	30.10	8.26	0	1	11
07			54	51	52	89	29.15	30.11	7.61	0	XX	XX
08			56	52	54	86	29.16	30.13	8.24	0	XX	XX
09			60	53	56	78	29.17	30.13	8.90	2	2	09
10			65	53	58	66	29.17	30.13	9.94	3	1	10
11			68	52	59	58	29.16	30.12	9.97	2	1	11
12			70	52	60	54	29.15	30.10	9.87	3	0	24
13			72	51	60	50	29.12	30.08	9.84	3	1	26
14			73	51	61	48	29.10	30.05	9.84	4	1	26
15			74	51	61	47	29.09	30.03	9.55	4	1	26
16			74	51	61	48	29.08	30.03	9.44	4	2	27
17			74	51	61	48	29.08	30.03	9.42	3	1	26
18			71	52	60	54	29.08	30.04	9.19	2	1	26
19			67	53	59	63	29.09	30.05	9.42	1	2	26
20			64	53	58	69	29.10	30.06	9.42	1	1	24
21			62	53	57	73	29.11	30.07	9.52	1	0	17
22			61	53	56	76	29.12	30.08	9.27	1	1	14
23			60	52	56	78	29.12	30.08	9.31	1	0	17
24			58	52	55	80	29.12	30.07	9.03	1	0	22

OAK RIDGE, TN OCTOBER Temperatures



Long-Term (1951-2007) Mean: 58.8
1971-2000 Normal: 58.4

OAK RIDGE, TN OCTOBER Precipitation



Long-Term (1951-2007) Mean Monthly Total: 2.86

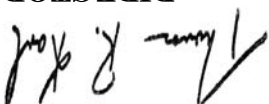
1971-2000 Normal: 3.02



OCTOBER 2007
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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