



# OCTOBER 2012 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



OCTOBER 2012  
OAK RIDGE, TN

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		LST 11	LST 12	LST 13	LST 14	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	68	57	63	-1	59	61	2	0	RA BR			0.20	28.77	29.71	1.6	06	3.5	15	06	9	06	01		
02	73	63	68*	4	62	64	0	3	RA BR			0.05	28.82	29.79	2.5	23	3.6	24	25	13	24	02		
03	75	59	67	3	56	60	0	2	RA			T	29.13	30.11	0.4	21	1.2	12	28	8	20	03		
04	78	54	66	3	56	59	0	1	BR			0.00	29.28	30.25	0.7	13	1.2	10	21	7	19	04		
05	79	54	67	4	55	59	0	2	FG+ BR			0.00	29.19	30.13	0.9	19	1.1	16	21	9	18	05		
06	63	54	59	-3	50	54	6	0	RA BR			0.04	29.08	30.05	1.0	07	2.0	15	08	10	07	06		
07	57	45	51	-11	43	47	14	0	RA			0.08	29.15	30.14	0.5	08	0.5	9	12	6	07	07		
08	51	45	48	-13	45	47	17	0	RA BR			0.52	29.20	30.19	0.5	07	0.7	12	07	7	08	08		
09	59	43	51	-10	45	48	14	0				0.00	29.16	30.14			0.1	8	26	6	27	09		
10	65	42	54	-7	46	49	11	0	BR			0.00	29.16	30.16	0.9	22	2.2	17	26	10	25	10		
11	69	40	55	-5	42	48	10	0				0.00	29.28	30.27	0.3	18	0.8	14	14	9	28	11		
12	67	52	60	0	50	54	5	0	RA			T	29.29	30.27	0.3	07	0.3	8	09	6	08	12		
13	76	47	62	3	51	56	3	0				0.00	29.31	30.27	1.3	22	2.2	16	21	12	19	13		
14	73	55	64	5	56	60	1	0	RA			0.04	29.15	30.08	1.7	22	2.7	20	19	14	19	14		
15	71	48	60	1	49	55	5	0	RA BR			0.34	28.97	29.94	2.6	27	3.8	22	25	13	27	15		
16	70	43	57	-1	44	49	8	0	FG+ FG BR			0.00	29.00	29.98	0.5	16	0.5	9	16	7	16	16		
17	74	47	61	3	46	52	4	0				0.00	28.92	29.87	1.7	21	2.2	15	20	10	19	17		
18	65	45	55	-3	50	53	10	0	RA BR			0.19	28.80	29.77	1.6	24	2.9	25	26	15	25	18		
19	68	39*	54	-3	38	47	11	0	RA			T	28.80	29.77	1.7	21	3.0	26	18	17	20	19		
20	65	45	55	-2	41	48	10	0				0.00	28.94	29.93	1.2	25	2.3	15	23	9	28	20		
21	71	41	56	0	44	48	9	0	FG+ BR			0.00	29.16	30.15	0.3	10	0.3	9	19	7	17	21		
22	78	46	62	6	49	53	3	0	BR			0.00	29.22	30.20	0.2	18	0.2	8	19	5	26	22		
23	78	49	64	8	50	55	1	0				0.00	29.18	30.15	0.7	25	1.3	15	27	9	26	23		
24	79	47	63	8	49	54	2	0	FG+ BR			0.00	29.18	30.15	0.1	13	0.6	9	18	7	16	24		
25	79	46	63	8	51	55	2	0	FG+ BR			0.00	29.13	30.09	0.6	28	0.8	13	27	8	26	25		
26	80*	54	67	12	55	59	0	2	BR			0.00	29.07	30.01	0.2	16	0.5	12	21	6	18	26		
27	63	50	57	3	46	49	8	0	RA			T	29.00	29.96	1.5	02	3.3	20	01	12	01	27		
28	50	46	48	-6	41	45	17	0	RA BR			0.19	28.96	29.95	2.4	34	4.1	17	33	12	33	28		
29	48	42	45	-8	31	39	20	0	RA			0.01	28.95	29.92	4.1	33	5.2	30*	33	17*	32	29		
30	47	42	45*	-8	30	38	20	0	RA			T	28.75	29.74	5.5	27	6.5	23	28	14	27	30		
31	59	42	51	-2	25	39	14	0				0.00	28.85	29.85	4.9	26	6.1	24	26	15	26	31		
67.7		47.8	57.8	☼	46.9	51.7	7.3	0.3	< MONTHLY AVERAGES   TOTALS >				1.66	29.06	30.03	0.7	26	2.1	< MONTHLY AVERAGES					
-3.4		-0.2	-1.7		-----DEPARTURE FROM NORMAL -----								-1.26	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 0.52 DATE : 08				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.35 13 0953							
TOTAL DEPARTURE									GREATEST SNOW DEPTH :				MINIMUM :				29.63 01 1853							
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 10							
HEATING : 227 28 246 26									MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 5		SNOWFALL >= 1.0 INCH :									
COOLING : 10 -20 1738 258									THUNDERSTORMS : 0		HEAVY FOG : 5													

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
OCTOBER 2012

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	T	0.01	0.01	T	T		T	0.01	0.02	0.02	0.05	0.02	01	T	0.04	T	T	T					0.01	0.01	01	0.20	0.20	
02			0.04	0.01									02												02	0.05	0.05	
03		T											03												03	T	T	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06						0.02	0.01	0.01					06												06	0.04	0.04	
07	0.04	0.04	T										07												07	0.08	0.08	
08				T	0.05	0.12	0.07	0.10	0.06	0.07	0.05	T	08	T											08	0.52	0.52	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12							T						12												12	T	T	
13													13												13	0.00	0.00	
14													14					T	T	0.01	0.03		T		14	0.04	0.04	
15	0.31	0.03											15												15	0.34	0.34	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18				T	0.17	T					0.02	T	18												18	0.19	0.19	
19	T												19												19	T	T	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27					T		T						27	T	T			T							27	T	T	
28								0.04	0.07	0.02	0.01	T	28	0.01	T	T	0.04	T				T	T		28	0.19	0.19	
29													29				T	T	0.01		T				29	0.01	0.01	
30													30				T	T							30	T	T	
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)	0.21	0.27	0.29	0.29	0.30	0.31	0.33	0.34	0.34	0.34	0.34	0.34
Ending Date	15	15	15	15	15	15	15	15	15	15	15	15
Ending Time (Hr/Min)	0023	0025	0031	0031	0046	0055	0115	0120	0120	0120	0120	0120

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 1981-2010

## 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 2012

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							7.00	10.00	
03							8.00	10.00	
04							2.00	10.00	
05							0.00	10.00	
06							5.00	10.00	
07							7.00	10.00	
08							5.00	10.00	
09							10.00	10.00	
10							6.00	10.00	
11							8.00	10.00	
12							10.00	10.00	
13							9.00	10.00	
14							7.00	10.00	
15							7.00	10.00	
16							0.00	10.00	
17							8.00	10.00	
18							2.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							0.25	10.00	
22							2.50	10.00	
23							9.00	10.00	
24							0.25	10.00	
25							0.25	10.00	
26							6.00	10.00	
27							9.00	10.00	
28							7.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.14	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25		<= 3.0				>= 7.0			
5		8				18			

## OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN  
OCTOBER 2012 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: 0632		OCT 01		SUNSET: 1821										SUNRISE: 0637		OCT 07		SUNSET: 1812				
01	OVC	100			10.00		60	57	58	90	3	05	28.87	29.81	01	OVC	090			7.00	-RA	50	44	47	80	5	08	29.10	30.07
04	OVC	060			10.00	-RA	58	54	56	87	3	VR	28.82	29.77	04	OVC	027			10.00		49	45	47	86	0	00	29.10	30.07
07	OVC	037			7.00		58	54	56	87	7	05	28.80	29.75	07	OVC	027			10.00		49	44	47	83	0	00	29.12	30.09
10	BKN	110			6.00	-RA BR	60	57	58	90	5	VR	28.80	29.76	10	OVC	034			10.00		51	43	47	74	0	00	29.15	30.14
13	OVC	008			9.00		63	61	62	93	5	VR	28.74	29.69	13	OVC	055			10.00		53	40	47	62	0	00	29.21	30.19
16	OVC	060			10.00		68	64	65	87	3	VR	28.70	29.63	16	FEW	032			10.00		56	40	48	55	0	00	29.16	30.14
19	OVC	045			10.00		67	64	65	90	3	02	28.69	29.63	19	CLR	NC			10.00		50	44	47	80	0	00	29.17	30.16
22	OVC	060			10.00		66	64	65	93	0	00	28.73	29.67	22	CLR	NC			10.00		46	43	45	89	0	00	29.20	30.19
							SUNRISE: 0633		OCT 02		SUNSET: 1820										SUNRISE: 0638		OCT 08		SUNSET: 1811				
01	OVC	008			10.00		66	64	65	93	0	00	28.74	29.67	01	CLR	NC			10.00		46	43	45	89	0	00	29.17	30.16
04	OVC	050			9.00	-RA	66	65	65	97	0	00	28.74	29.67	04	OVC	044			10.00		49	44	47	83	0	00	29.20	30.18
07	OVC	024			10.00		66	65	65	97	0	00	28.77	29.70	07	OVC	043			5.00	-RA BR	47	44	46	89	0	00	29.23	30.22
10	OVC	055			10.00		72	63	66	73	6	VR	28.81	29.75	10	OVC	075			8.00	-RA	47	44	46	89	0	00	29.26	30.26
13	OVC	048			10.00		71	61	65	71	6	25	28.85	29.79	13	OVC	043			10.00		49	45	47	86	5	06	29.22	30.21
16	OVC	055			10.00		71	59	64	66	9	22	28.87	29.81	16	OVC	028			10.00		50	45	48	83	3	08	29.19	30.18
19	OVC	060			10.00		68	60	63	76	6	23	28.95	29.88	19	OVC	026			10.00		50	45	48	83	0	00	29.19	30.18
22	OVC	065			10.00		65	60	62	84	3	23	29.02	29.96	22	OVC	042			10.00		50	45	48	83	0	00	29.20	30.19
							SUNRISE: 0633		OCT 03		SUNSET: 1818										SUNRISE: 0638		OCT 09		SUNSET: 1810				
01	OVC	024			10.00		63	57	60	81	3	25	29.05	29.99	01	OVC	038			10.00		49	46	48	89	0	00	29.19	30.17
04	OVC	048			10.00		61	56	58	84	0	00	29.08	30.03	04	OVC	040			10.00		49	45	47	86	0	00	29.18	30.16
07	CLR	NC			10.00		60	57	58	90	0	00	29.13	30.09	07	OVC	037			10.00		50	45	48	83	0	00	29.20	30.19
10	FEW	013			10.00		67	56	61	68	3	VR	29.18	30.14	10	OVC	033			10.00		53	46	49	77	0	00	29.21	30.19
13	FEW	038			10.00		72	55	62	55	0	00	29.16	30.11	13	OVC	029			10.00		57	45	51	64	0	00	29.16	30.14
16	CLR	NC			10.00		73	53	61	50	0	00	29.13	30.08	16	OVC	032			10.00		58	44	51	60	3	VR	29.13	30.10
19	CLR	NC			10.00		68	56	61	66	0	00	29.17	30.13	19	CLR	NC			10.00		51	46	48	83	0	00	29.10	30.09
22	SCT	040			10.00		62	57	59	84	0	00	29.23	30.19	22	CLR	NC			10.00		45	42	44	89	0	00	29.13	30.12
							SUNRISE: 0634		OCT 04		SUNSET: 1817										SUNRISE: 0639		OCT 10		SUNSET: 1808				
01	CLR	NC			10.00		58	56	57	93	0	00	29.26	30.22	01	BKN	002			10.00		42	40	41	93	0	00	29.10	30.09
04	CLR	NC			9.00		57	54	55	90	0	00	29.27	30.23	04	BKN	002			8.00		43	42	43	96	0	00	29.12	30.09
07	CLR	NC			7.00		55	53	54	93	0	00	29.33	30.29	07	OVC	070			10.00		47	45	46	93	0	00	29.16	30.15
10	CLR	NC			9.00		63	58	60	84	0	00	29.35	30.31	10	OVC	030			10.00		54	50	52	86	5	21	29.18	30.17
13	CLR	NC			10.00		77	55	64	47	6	VR	29.30	30.25	13	OVC	025			10.00		59	52	55	78	5	24	29.17	30.16
16	BKN	050			10.00		78	55	64	45	6	10	29.26	30.21	16	BKN	060			10.00		64	50	56	61	7	VR	29.16	30.14
19	CLR	NC			10.00		69	58	62	68	0	00	29.25	30.21	19	CLR	NC			10.00		56	48	52	75	0	00	29.21	30.19
22	CLR	NC			10.00		61	57	59	87	0	00	29.28	30.24	22	CLR	NC			10.00		48	44	46	86	0	00	29.26	30.25
							SUNRISE: 0635		OCT 05		SUNSET: 1815										SUNRISE: 0640		OCT 11		SUNSET: 1807				
01	CLR	NC			7.00		57	55	56	93	0	00	29.27	30.22	01	CLR	NC			10.00		44	40	42	86	0	00	29.27	30.26
04	VV	001			0.25	FG	55	54	54	96	0	00	29.25	30.20	04	CLR	NC			10.00		41	39	40	93	0	00	29.29	30.27
07	VV	001			0.00	FG	54	53	53	96	0	00	29.27	30.23	07	CLR	NC			10.00		40	37	39	89	0	00	29.31	30.31
10	CLR	NC			10.00		62	56	59	81	0	00	29.25	30.21	10	CLR	NC			10.00		54	41	48	62	0	00	29.35	30.33
13	SCT	034			10.00		76	58	65	54	5	20	29.17	30.12	13	CLR	NC			10.00		64	41	52	43	0	00	29.28	30.27
16	CLR	NC			10.00		78	52	63	40	5	21	29.10	30.04	16	BKN	095			10.00		68	38	53	33	7	22	29.26	30.23
19	CLR	NC			10.00		67	57	61	70	0	00	29.08	30.03	19	OVC	100			10.00		61	48	54	63	0	00	29.25	30.24
22	CLR	NC			10.00		61	57	59	87	0	00	29.09	30.04	22	OVC	042			10.00		55	49	52	80	0	00	29.27	30.25
							SUNRISE: 0636		OCT 06		SUNSET: 1814										SUNRISE: 0641		OCT 12		SUNSET: 1806				
01	CLR	NC			8.00		60	57	58	90	0	00	29.04	29.98	01	OVC	042			10.00		58	50	54	75	0	00	29.27	30.24
04	CLR	NC			9.00		61	57	59	87	0	00	29.02	29.96	04	CLR	NC			10.00		52	49	50	90	0	00	29.27	30.23
07	OVC	006			5.00	BR	61	59	60	93	0	00	29.07	30.02	07	OVC	029			10.00		54	50	52	86	5	06	29.29	30.26
10	OVC	012			10.00		57	52	54	83	3	VR	29.13	30.08	10	OVC	034			10.00		60	51	55	72	0	00	29.31	30.28
13	OVC	037			10.00		56	48	52	75	6	09	29.12	30.08	13	OVC	030			10.00		66	51	58	59	0	00	29.30	30.27
16	OVC	040			10.00		56	46	51	69	5	07	29.10	30.06	16	OVC	031			10.00		64	52	57	65	0	00	29.31	30.28
19	OVC	044			10.00		56	46	51	69	0	00	29.13	30.10	19	OVC	029			10.00		62	52	56	70	0	00	29.32	30.29
22	OVC	044			10.00		55	43	49	64	3	34	29.14	30.11	22	OVC	033			10.00		59	48	53	67	0	00	29.34	30.31

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

OCTOBER 2012

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE			WEATHER	TEMPERATURE °F			WIND	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	SPEED (MPH)				DIRECTION Tens of Deg	STATION	SEA LEVEL		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
<b>SUNRISE: 0642      OCT 13      SUNSET: 1804</b>																															
01	CLR	NC			10.00			54	47	50	77	0	00	29.34	30.31	01	CLR	NC			10.00			45	43	44	93	0	00	28.85	29.82
04	CLR	NC			10.00			50	47	48	90	0	00	29.34	30.32	04	CLR	NC			10.00			41	39	40	93	0	00	28.82	29.79
07	CLR	NC			9.00			48	45	47	89	0	00	29.36	30.34	07	CLR	NC			10.00			39	37	38	93	0	00	28.82	29.80
10	CLR	NC			10.00			61	50	55	67	0	00	29.38	30.35	10					10.00									28.81	
13	CLR	NC			10.00			73	54	62	52	6	VR	29.31	30.27	13	FEW	044			10.00			65	35	50	33	10	21	28.77	29.73
16	SCT	042			10.00			75	56	64	52	5	21	29.25	30.21	16	OVC	085			10.00			68	32	51	26	13	21	28.74	29.70
19	FEW	120			10.00			69	56	61	63	3	VR	29.25	30.22	19	OVC	080			10.00			63	36	50	37	0	00	28.79	29.77
22	CLR	NC			10.00			64	50	56	61	3	24	29.26	30.22	22	OVC	080			10.00			58	40	49	51	0	00	28.84	
<b>SUNRISE: 0643      OCT 14      SUNSET: 1803</b>																															
01	CLR	NC			10.00			58	51	54	78	0	00	29.23	30.19	01	OVC	075			10.00			56	38	47	51	6	27	28.87	29.83
04	CLR	NC			10.00			56	50	53	80	3	21	29.21	30.16	04	OVC	050			10.00			51	40	46	66	0	00	28.88	29.84
07	OVC	039			10.00			58	52	55	81	0	00	29.21	30.17	07	OVC	046			10.00			52	41	47	66	0	00	28.94	29.90
10	OVC	047			10.00			61	54	57	78	6	22	29.24	30.20	10	OVC	044			10.00			58	39	49	49	7	26	28.97	29.93
13	OVC	060			10.00			68	58	62	71	6	21	29.15	30.11	13	BKN	047			10.00			62	40	51	45	3	VR	28.96	29.92
16	BKN	032			10.00			72	59	64	64	8	23	29.04	29.99	16	FEW	050			10.00			64	41	52	43	3	VR	28.95	29.91
19	OVC	042			9.00	-RA		68	61	64	78	0	00	29.02	29.97	19	FEW	050			10.00			56	43	49	62	0	00	29.01	29.98
22	OVC	055			9.00			65	62	63	90	3	25	29.00	29.95	22	FEW	049			10.00			50	44	47	80	0	00	29.06	30.03
<b>SUNRISE: 0644      OCT 15      SUNSET: 1802</b>																															
01	OVC	100			7.00	-RA		63	61	62	93	0	00	28.96	29.90	01	CLR	NC			10.00			45	42	44	89	0	00	29.10	30.07
04	BKN	110			10.00			62	60	61	93	0	00	28.94	29.88	04	FEW	001			10.00			42	39	41	89	0	00	29.13	30.10
07	CLR	NC			10.00			57	54	55	90	5	VR	28.99	29.93	07	VV	001		0.25	FG		41	39	40	93	0	00	29.19	30.18	
10	CLR	NC			10.00			64	52	57	65	6	VR	29.01	29.96	10	CLR	NC			10.00			53	46	49	77	0	00	29.22	30.21
13	CLR	NC			10.00			70	46	57	42	10	26	28.98	29.92	13	CLR	NC			10.00			66	44	54	45	0	00	29.19	30.16
16	FEW	060			10.00			70	40	54	34	7	29	28.98	29.92	16	CLR	NC			10.00			69	44	56	41	0	00	29.15	30.13
19	CLR	NC			10.00			60	41	50	50	0	00	29.00	29.96	19	CLR	NC			10.00			59	49	54	70	0	00	29.17	30.16
22	CLR	NC			10.00			52	46	49	80	0	00	29.01	29.97	22	CLR	NC			10.00			51	47	49	86	0	00	29.20	30.18
<b>SUNRISE: 0644      OCT 16      SUNSET: 1800</b>																															
01	CLR	NC			10.00			49	45	47	86	0	00	29.03	29.99	01	CLR	NC			10.00			48	46	47	93	0	00	29.20	30.18
04	CLR	NC			8.00			46	43	45	89	0	00	29.05	30.01	04	FEW	060			10.00			47	44	46	89	0	00	29.22	30.19
07	VV	001			0.25	FG		44	42	43	93	0	00	29.07	30.05	07	OVC	001		2.50	BR		46	45	46	96	0	00	29.27	30.25	
10	CLR	NC			10.00			55	46	50	72	0	00	29.07	30.04	10	OVC	060			10.00			58	51	54	78	0	00	29.29	30.27
13	CLR	NC			10.00			66	42	53	42	3	17	29.02	29.98	13	SCT	070			10.00			70	50	59	49	0	00	29.23	30.19
16	CLR	NC			10.00			69	41	54	36	6	16	28.95	29.91	16	CLR	NC			10.00			77	47	60	35	0	00	29.17	30.13
19	CLR	NC			10.00			59	48	53	67	0	00	28.93	29.90	19	CLR	NC			10.00			64	53	58	68	0	00	29.20	30.18
22	CLR	NC			10.00			52	48	50	86	0	00	28.96	29.93	22	CLR	NC			10.00			56	52	54	87	0	00	29.20	30.17
<b>SUNRISE: 0645      OCT 17      SUNSET: 1759</b>																															
01	CLR	NC			10.00			50	47	48	90	0	00	28.97	29.93	01	CLR	NC			10.00			53	50	51	90	0	00	29.18	30.15
04	CLR	NC			10.00			49	46	47	89	0	00	28.96	29.92	04	CLR	NC			10.00			50	48	49	93	0	00	29.18	30.14
07	CLR	NC			8.00			47	45	46	93	0	00	29.00	29.97	07	CLR	NC			10.00			50	47	48	90	0	00	29.22	30.20
10	CLR	NC			10.00			59	46	52	62	0	00	29.01	29.97	10	CLR	NC			10.00			63	53	57	70	0	00	29.24	30.21
13	CLR	NC			10.00			71	47	58	43	6	21	28.91	29.87	13	CLR	NC			10.00			74	51	61	45	3	VR	29.20	30.16
16	CLR	NC			10.00			74	44	58	34	6	20	28.85	29.80	16	CLR	NC			10.00			77	48	60	36	3	26	29.14	30.10
19	CLR	NC			10.00			65	49	56	56	3	21	28.84	29.80	19	CLR	NC			10.00			64	53	58	68	0	00	29.14	30.12
22	CLR	NC			10.00			62	44	53	52	0	00	28.80	29.75	22	CLR	NC			10.00			57	52	54	83	0	00	29.16	30.13
<b>SUNRISE: 0646      OCT 18      SUNSET: 1758</b>																															
01	CLR	NC			10.00			55	47	51	75	0	00	28.80	29.75	01	CLR	NC			10.00			52	49	50	90	0	00	29.18	30.14
04	OVC	055			10.00	-RA		59	50	54	72	9	26	28.86	29.80	04	CLR	NC			10.00			50	46	48	86	0	00	29.20	30.16
07	OVC	030			10.00			56	54	55	93	3	25	28.80	29.75	07	CLR	NC			6.00	BR		47	45	46	93	0	00	29.24	30.21
10	OVC	026			10.00			58	55	56	90	0	00	28.82	29.78	10	CLR	NC			10.00			58	53	55	84	0	00	29.25	30.22
13	BKN	026			10.00			63	58	60	84	5	VR	28.80	29.76	13	CLR	NC			10.00			76	50	61	40	0	00	29.18	30.14
16	OVC	049			10.00			64	44	53	48	5	VR	28.80	29.75	16	CLR	NC			10.00			78	48	61	35	3	14	29.13	30.09
19	SCT	065			10.00			56	47	51	72	0	00	28.81	29.78	19	CLR	NC			10.00			65	51	57	61	0	00	29.13	30.11
22	CLR	NC			10.00			47	44	46	89	0	00	28.87	29.83	22	CLR	NC			10.00			55	50	52	83	0	00	29.15	30.13

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

OCTOBER 2012 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATTELLITE		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
<b>SUNRISE: 0653      OCT 25      SUNSET: 1749</b>														
01	CLR	NC			10.00		51	48	49	90	0	00	29.15	30.11
04	CLR	NC			9.00		49	46	48	89	0	00	29.13	30.09
07	SCT	003			8.00		47	44	46	89	0	00	29.16	30.13
10	CLR	NC			10.00		62	53	57	73	0	00	29.18	30.15
13	CLR	NC			10.00		77	53	63	43	5	27	29.13	30.09
16	CLR	NC			10.00		77	54	63	45	0	00	29.08	30.03
19	CLR	NC			10.00		66	57	61	73	0	00	29.10	30.07
22	CLR	NC			10.00		59	55	57	87	0	00	29.10	30.06
<b>SUNRISE: 0654      OCT 26      SUNSET: 1748</b>														
01	BKN	065			10.00		58	54	56	87	0	00	29.10	30.05
04	BKN	070			8.00		55	53	54	93	0	00	29.10	30.05
07	SCT	065			7.00		54	52	53	93	0	00	29.13	30.08
10	BKN	039			10.00		66	56	60	70	0	00	29.13	30.09
13	BKN	080			10.00		77	56	64	48	3	VR	29.07	30.01
16	CLR	NC			10.00		80	53	64	39	0	00	29.00	29.94
19	BKN	100			10.00		69	56	61	63	0	00	29.00	29.96
22	OVC	095			10.00		63	56	59	78	0	00	29.00	29.95
<b>SUNRISE: 0654      OCT 27      SUNSET: 1747</b>														
01	BKN	100			10.00		61	52	56	72	0	00	29.00	29.93
04	OVC	090			10.00		57	49	53	75	3	06	28.98	29.92
07	OVC	028			10.00		54	48	51	80	0	00	29.01	29.96
10	OVC	020			10.00		53	45	49	74	3	VR	29.04	30.00
13	OVC	026			10.00		52	46	49	80	3	VR	29.00	29.97
16	OVC	028			10.00		53	44	48	72	0	00	28.98	29.95
19	OVC	028			10.00		52	43	48	72	3	VR	29.00	29.97
22	OVC	036			10.00		51	43	47	74	5	VR	29.01	29.99
<b>SUNRISE: 0655      OCT 28      SUNSET: 1746</b>														
01	OVC	036			10.00		50	42	46	74	5	VR	28.96	29.94
04	OVC	026			10.00		50	42	46	74	6	VR	28.94	29.91
07	OVC	024			10.00		50	42	46	74	7	VR	28.93	29.91
10	OVC	080			10.00	-RA	49	45	47	86	0	00	28.96	29.93
13	OVC	026			10.00	-RA	49	44	47	83	5	35	28.95	29.93
16	OVC	025			10.00	-RA	47	40	44	77	7	32	28.98	29.96
19	OVC	031			10.00		46	38	42	74	0	00	29.02	30.00
22	OVC	030			10.00	-RA	46	38	42	74	0	00	29.01	30.00
<b>SUNRISE: 0656      OCT 29      SUNSET: 1745</b>														
01	OVC	028			10.00		46	36	42	68	0	00	29.01	29.99
04	OVC	050			10.00		45	33	40	63	6	33	28.98	29.97
07	OVC	055			10.00		43	32	38	65	6	VR	28.99	29.98
10	OVC	031			10.00		44	32	39	63	7	35	29.00	29.99
13	OVC	029			10.00		45	32	39	60	6	33	28.96	29.95
16	OVC	045			10.00		45	35	41	68	3	VR	28.91	29.90
19	OVC	060			10.00		45	33	40	63	0	00	28.87	29.86
22	CLR	NC			10.00		47	19	36	33	6	32	28.83	29.81
<b>SUNRISE: 0657      OCT 30      SUNSET: 1744</b>														
01	SCT	060			10.00		47	22	37	37	8	30	28.76	29.73
04	FEW	120			10.00		45	26	37	47	5	VR	28.70	29.68
07	CLR	NC			10.00		43	27	37	53	7	27	28.71	29.68
10	OVC	034			10.00		42	30	37	63	5	26	28.74	29.72
13	OVC	035			10.00		43	33	39	68	10	27	28.74	29.72
16	OVC	055			10.00	-RA	44	34	40	68	8	26	28.74	29.73
19	OVC	055			10.00		43	34	39	71	5	VR	28.81	29.80
22	OVC	085			10.00		43	32	38	65	0	00	28.85	29.84

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATTELLITE		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
<b>SUNRISE: 0658      OCT 31      SUNSET: 1743</b>														
01	OVC	055			10.00		43	32	38	65	0	00	28.83	29.82
04	OVC	042			10.00		43	31	38	63	0	00	28.83	29.82
07	FEW	038			10.00		42	25	35	51	7	25	28.86	29.85
10	CLR	NC			10.00		47	26	38	44	10	25	28.89	29.88
13	CLR	NC			10.00		55	27	43	34	8	26	28.85	29.83
16	CLR	NC			10.00		57	22	42	26	11	27	28.83	29.81
19	CLR	NC			10.00		51	21	39	31	5	27	28.89	29.87
22	CLR	NC			10.00		49	23	39	36	0	00	28.93	29.91

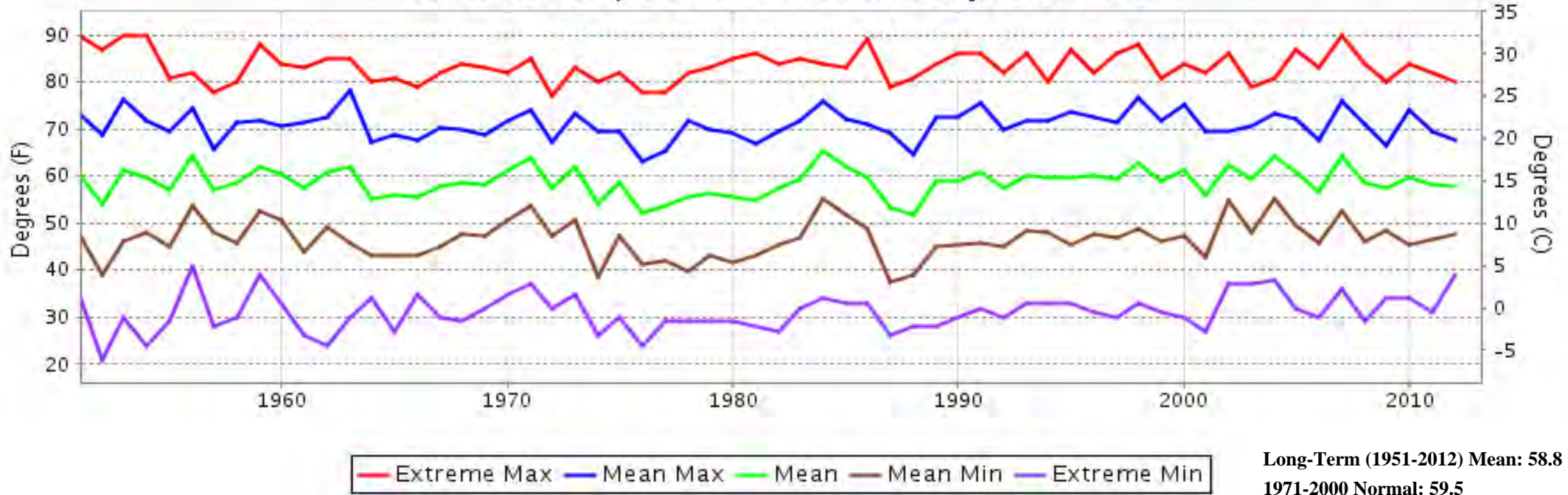
**3-HOURLY OBSERVATION NOTES**

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.

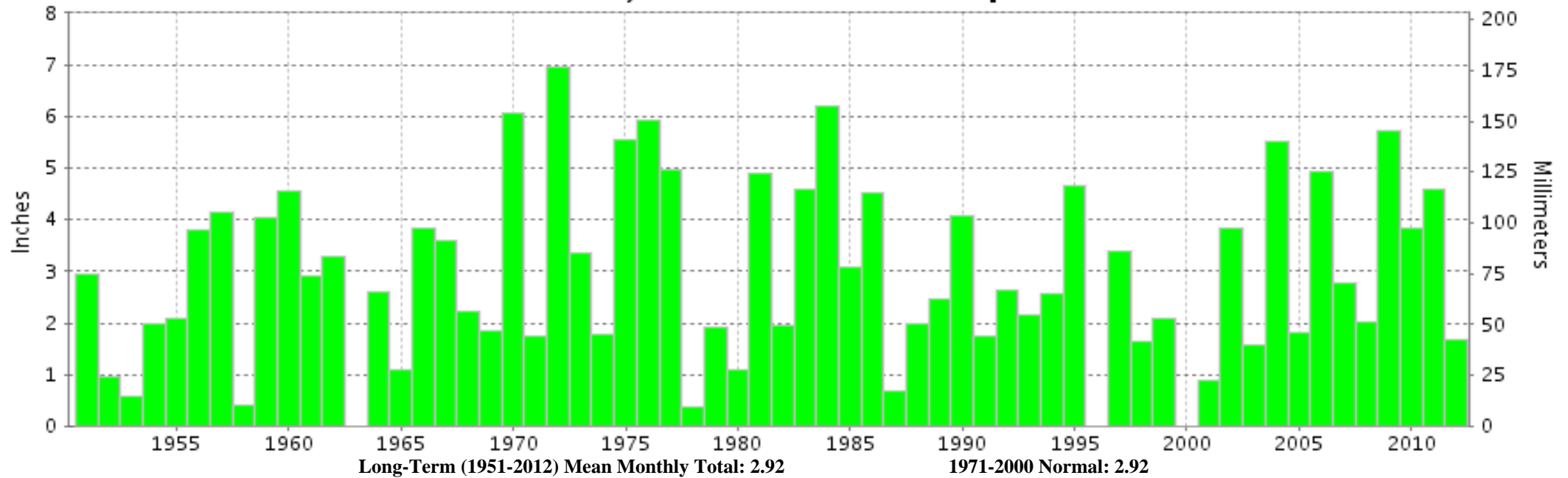
## SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		WIND SPEED (MPH)	DIRECTION		
							STATION	SEA LEVEL				
01			53	47	50	82	29.06	30.02	9.65	1	3	33
02			52	47	49	84	29.06	30.02	9.45	1	XX	XX
03			52	46	49	83	29.05	30.01	9.52	1	2	35
04			51	46	49	84	29.06	30.02	9.36	1	4	32
05			51	46	49	85	29.06	30.03	9.17	2	2	35
06			50	46	48	86	29.07	30.04	8.54	1	2	35
07			50	46	48	86	29.08	30.05	7.90	2	3	33
08			51	47	49	85	29.09	30.07	7.68	1	5	31
09			54	48	51	82	29.10	30.07	8.62	2	2	30
10			57	48	52	73	29.10	30.08	9.77	2	5	30
11			60	48	53	66	29.10	30.07	9.68	3	2	30
12			62	48	55	61	29.09	30.05	9.81	4	4	29
13			64	48	55	58	29.07	30.03	9.97	4	3	29
14			65	47	56	55	29.05	30.01	10.00	4	3	29
15			66	47	55	53	29.04	30.00	10.00	4	3	29
16			66	46	55	51	29.03	30.00	10.00	4	3	29
17			65	46	55	53	29.03	30.00	10.00	4	2	29
18			62	47	54	59	29.04	30.01	10.00	2	3	29
19			60	48	54	67	29.05	30.02	9.97	1	3	32
20			57	48	53	71	29.06	30.03	10.00	2	4	30
21			56	47	52	74	29.07	30.04	9.94	2	2	32
22			55	47	51	76	29.07	30.05	9.97	1	3	32
23			54	47	51	78	29.07	30.03	9.84	1	3	34
24			53	46	50	79	29.06	30.03	9.90	1	2	32

## OAK RIDGE, TN OCTOBER Temperatures



## OAK RIDGE, TN OCTOBER Precipitation





**OCTOBER 2012  
OAK RIDGE, TN**

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

*I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.*

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

**DIRECTOR**

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