



# OCTOBER 2015 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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		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			
																			SPEED 20	DIR 21	SPEED 22	DIR 23		
01	71	61	66	2	58	61	0	1	RA			T	28.94	29.89	0.7	06	3.7	20	36	8	07	01		
02	62	57	60	-4	56	57	5	0	RA BR		0.55	0.55	28.91	29.86	0.9	07	2.9	14	05	8	05	02		
03	62	56	59	-5	55	57	6	0	RA BR		0.31	0.31	28.82	29.78	2.1	06	4.7	17	08	12	06	03		
04	81	62	72	9	59	63	0	7			0.00	0.00	28.90	29.86	2.7	05	5.6	21	03	13	06	04		
05	83	61	72	9	59	64	0	7			0.00	0.00	29.03	29.97	1.7	06	3.1	16	08	12	08	05		
06	84*	60	72	10	58	63	0	7			0.00	0.00	29.07	30.01	0.1	12	0.8	9	11	7	10	06		
07	83	56	70	8	57	61	0	5	FG+ FG BR		0.00	0.00	29.11	30.07	0.4	05	0.6	10	07	7	09	07		
08	82	57	70	9	59	63	0	5			0.00	0.00	29.14	30.09	0.7	22	1.5	14	25	9	23	08		
09	81	63	72*	11	62	65	0	7	RA FG BR		0.79	0.79	29.11	30.05	0.9	21	2.5	23*	31	14*	32	09		
10	69	58	64	3	57	59	1	0	RA BR		0.21	0.21	29.09	30.04	0.6	07	1.5	14	08	9	06	10		
11	71	54	63	3	53	57	2	0			0.00	0.00	29.04	29.99	0.3	19	1.2	12	20	8	17	11		
12	75	51	63	3	53	56	2	0	RA FG+ FG BR		0.23	0.23	28.92	29.86	1.4	25	2.3	20	28	13	28	12		
13	76	53	65	6	52	58	0	0	RA BR		0.02	0.02	28.84	29.80	1.3	25	3.7	20	23	13	25	13		
14	75	47	61	2	46	52	4	0			0.00	0.00	29.02	29.99	1.0	26	2.2	15	24	10	25	14		
15	76	45	61	2	46	52	4	0			0.00	0.00	29.15	30.13	0.7	20	1.0	12	17	8	16	15		
16	71	44	58	0	40	50	7	0			0.00	0.00	29.21	30.19	1.4	33	1.6	18	32	12	32	16		
17	66	37	52	-6	33	43	13	0			0.00	0.00	29.33	30.32	0.8	35	2.0	16	33	9	34	17		
18	61	36	49*	-9	31	40	16	0			0.00	0.00	29.44	30.46	1.9	08	2.4	19	06	13	06	18		
19	66	36*	51	-6	36	43	14	0			0.00	0.00	29.45	30.45	0.4	22	1.4	12	18	9	16	19		
20	69	39	54	-3	40	46	11	0	FG+ BR		0.00	0.00	29.39	30.38	0.4	25	0.8	8	12	6	25	20		
21	74	40	57	1	44	49	8	0	FG+ FG BR		0.00	0.00	29.38	30.37	0.3	15	0.3	9	25	6	26	21		
22	76	45	61	5	47	51	4	0	FG+ BR		0.00	0.00	29.34	30.32	0.1	19	0.3	9	09	7	09	22		
23	77	46	62	6	50	54	3	0	FG+ FG BR		0.00	0.00	29.24	30.21	0.1	34	0.5	8	19	6	19	23		
24	70	54	62	7	57	59	3	0	RA BR		0.02	0.02	29.19	30.15	0.2	26	0.8	10	26	7	26	24		
25	71	61	66	11	59	61	0	1	RA			T	29.20	30.17	1.2	07	2.4	18	05	9	06	25		
26	64	58	61	6	56	58	4	0	RA BR		0.17	0.17	29.23	30.20	1.5	06	3.7	13	08	10	08	26		
27	59	51	55	1	52	53	10	0	RA		0.30	0.30	29.13	30.08	0.9	06	4.2	16	06	9	06	27		
28	71	57	64	10	58	60	1	0	RA BR		0.51	0.51	28.81	29.76	0.5	25	2.1	16	21	8	23	28		
29	72	48	60	7	49	55	5	0			0.00	0.00	28.90	29.87	1.3	26	2.3	19	29	12	26	29		
30	64	40	52	-1	38	45	13	0			0.00	0.00	29.10	30.10	0.6	10	1.9	14	34	10	08	30		
31	62	45	54	1	47	50	11	0	RA BR		0.08	0.08	29.10	30.06	0.2	26	0.6	10	16	8	16	31		

71.7	50.9	61.3	☼	50.5	55.0	4.7	1.3	< MONTHLY AVERAGES   TOTALS >				3.19	29.11	30.08	0.2	05	2.1	< MONTHLY AVERAGES			
0.6	2.9	1.8		-----DEPARTURE FROM NORMAL ----->				0.27	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												

<b>DEGREE DAYS</b>				GREATEST 24-HR PRECIPITATION : 1.00 DATE : 09-10				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM : 30.53 19 0953							
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM : 29.70 28 1553							
HEATING : 147 -52 154 -66				NUMBER OF DAYS WITH ->				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH : 11			
COOLING : 40 10 1784 304				THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 8			
								HEAVY FOG : 6				SNOWFALL >= 1.0 INCH :							

OCTOBER 2015  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
OCTOBER 2015

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	T	T	
02		0.02	T	T		0.04	0.08	0.07	0.06	0.15	0.01	0.02	02	0.02	0.02	0.02	0.03	T	0.01	T	T				02	0.55	0.55	
03					T	0.05	0.01	T				0.01	0.04	0.04	T	0.03	0.06	0.03	0.02	0.02	T			03	0.31	0.31		
04													04										T		04	0.00	0.00	
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								T					09				0.76	T	0.01	0.01	0.01	T	T	09	0.79	0.79		
10	T	0.04	0.02	0.01	0.02	0.01	0.08	0.03	T				10												10	0.21	0.21	
11													11												11	0.00	0.00	
12													12									0.02	0.21	12	0.23	0.23		
13	0.02												13											13	0.02	0.02		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
17													17											17	0.00	0.00		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24											T		24			T	0.01	0.01						24	0.02	0.02		
25													25				T		T					25	T	T		
26				T	T		T	0.01	T	T	T		26	T	T	0.03	0.03	0.05	0.02	T	0.02	T	T	26	0.17	0.17		
27	0.04	0.05	0.04	T	T		T	0.01	0.01	0.04	0.02	0.04	27	0.02	0.01	T	T		T	T	0.01	T	0.01	27	0.30	0.30		
28	0.05	0.01		T	0.02	0.01	0.03	0.13	0.11	0.01	0.06	0.07	28	0.01	T	T			T					28	0.51	0.51		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31													31		T			T	0.01	0.01	0.04	0.02		31	0.08	0.08		

\* Indicates sum of Hourly and Daily disagree.

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.27	0.49	0.58	0.63	0.74	0.76	0.76	0.76	0.76	0.76	0.76	0.77
Ending Date	09	09	09	09	09	09	09	09	09	09	09	09
Ending Time (Hr/Min)	1721	1726	1731	1734	1745	1753	1753	1753	1753	1753	1753	1959

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.

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).

## 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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    '' = Moderate    '-' = Light

# OAK RIDGE, TN OCTOBER 2015

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

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

**NORMALS ARE FOR THE YEARS 1981-2010**

### ADDITIONAL NOTES & ERRATA:

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	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	2.50	10.00
03	4.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	0.25	10.00
08	10.00	10.00
09	5.00	10.00
10	5.00	10.00
11	10.00	10.00
12	0.25	10.00
13	5.00	10.00
14	10.00	10.00
15	10.00	10.00
16	10.00	10.00
17	10.00	10.00
18	10.00	10.00
19	10.00	10.00
20	4.00	10.00
21	0.25	10.00
22	0.25	10.00
23	0.00	10.00
24	5.00	10.00
25	7.00	10.00
26	5.00	10.00
27	5.00	10.00
28	1.25	10.00
29	10.00	10.00
30	10.00	10.00
31	4.00	10.00
<b>AVGS</b>	6.25	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
5	7	15

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN OCTOBER 2015 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0632</b>					<b>OCT 01</b>					<b>SUNSET: 1821</b>					<b>SUNRISE: 0637</b>					<b>OCT 07</b>					<b>SUNSET: 1812</b>				
01	OVC	030	10.00		66	60	62	81	3	VR	28.93	29.86	01	CLR	NC	10.00			60	58	59	93	0	00	29.08	30.02			
04	OVC	027	10.00		65	59	61	81	5	VR	28.92	29.86	04	CLR	NC	10.00			58	56	57	93	0	00	29.08	30.01			
07	OVC	025	10.00		65	58	61	78	6	05	28.94	29.88	07	VV	002	0.25	FG	56	55	55	97	0	00	29.13	30.08				
10	OVC	026	10.00		66	58	61	75	3	VR	28.97	29.91	10	CLR	NC	10.00			70	58	63	66	0	00	29.16	30.11			
13	OVC	020	10.00		68	58	62	70	5	VR	28.95	29.89	13	CLR	NC	10.00			79	56	65	45	0	00	29.14	30.08			
16	OVC	019	10.00		67	58	62	73	3	VR	28.94	29.88	16	CLR	NC	10.00			82	52	64	35	5	09	29.10	30.04			
19	OVC	028	10.00	-RA	62	57	59	84	3	VR	28.96	29.91	19	CLR	NC	10.00			70	59	63	68	0	00	29.13	30.08			
22	OVC	027	10.00		61	54	57	78	3	VR	28.97	29.92	22	CLR	NC	10.00			63	58	60	84	0	00	29.14	30.09			
<b>SUNRISE: 0633</b>					<b>OCT 02</b>					<b>SUNSET: 1820</b>					<b>SUNRISE: 0638</b>					<b>OCT 08</b>					<b>SUNSET: 1811</b>				
01	OVC	032	10.00		60	53	56	78	3	VR	28.93	29.88	01	CLR	NC	10.00			60	57	58	90	0	00	29.13	30.08			
04	OVC	044	10.00		59	55	57	87	5	06	28.91	29.86	04	CLR	NC	10.00			58	56	57	93	0	00	29.14	30.08			
07	OVC	055	6.00	RA BR	58	55	56	90	5	08	28.93	29.88	07	CLR	NC	10.00			57	54	55	90	0	00	29.18	30.14			
10	OVC	095	9.00	-RA	59	57	58	93	5	VR	28.93	29.88	10	CLR	NC	10.00			71	60	64	68	0	00	29.20	30.15			
13	OVC	019	10.00	-RA	62	58	60	86	0	00	28.91	29.87	13	FEW	033	10.00			79	61	68	54	7	21	29.15	30.10			
16	OVC	050	3.00	-RA BR	61	58	59	90	0	00	28.89	29.85	16	CLR	NC	10.00			82	59	67	46	5	26	29.10	30.05			
19	OVC	012	7.00	-RA	58	56	57	93	5	VR	28.89	29.85	19	BKN	080	10.00			75	62	67	64	0	00	29.10	30.06			
22	OVC	028	10.00		58	54	56	87	5	VR	28.88	29.84	22	OVC	100	10.00			71	63	66	76	0	00	29.13	30.08			
<b>SUNRISE: 0633</b>					<b>OCT 03</b>					<b>SUNSET: 1818</b>					<b>SUNRISE: 0638</b>					<b>OCT 09</b>					<b>SUNSET: 1810</b>				
01	OVC	085	10.00		58	53	55	84	3	VR	28.85	29.80	01	CLR	NC	10.00			66	62	64	87	0	00	29.13	30.06			
04	OVC	017	10.00		58	53	55	84	3	VR	28.82	29.77	04	BKN	050	10.00			68	62	64	81	0	00	29.13	30.05			
07	OVC	017	9.00	-RA	57	54	55	90	0	00	28.82	29.78	07	OVC	050	10.00			67	62	64	84	0	00	29.14	30.09			
10	OVC	019	10.00		59	53	56	81	8	06	28.83	29.78	10	FEW	029	10.00			72	61	65	68	8	23	29.16	30.11			
13	OVC	021	10.00		60	56	58	86	6	VR	28.79	29.75	13	OVC	095	10.00			77	63	68	62	8	20	29.10	30.05			
16	OVC	120	8.00	-RA	60	58	59	93	6	VR	28.80	29.75	16	FEW	039	10.00			80	63	69	56	5	VR	29.02	29.95			
19	OVC	085	10.00	-RA	61	58	59	90	3	07	28.82	29.78	19	BKN	100	10.00			66	63	64	90	0	00	29.09	30.03			
22	FEW	120	10.00		62	57	59	84	7	06	28.85	29.80	22	OVC	110	10.00	-RA		64	61	62	90	0	00	29.13	30.07			
<b>SUNRISE: 0634</b>					<b>OCT 04</b>					<b>SUNSET: 1817</b>					<b>SUNRISE: 0639</b>					<b>OCT 10</b>					<b>SUNSET: 1808</b>				
01	BKN	110	10.00		63	58	60	84	5	06	28.87	29.82	01	OVC	110	10.00	-RA		63	61	62	93	0	00	29.10	30.04			
04	CLR	NC	10.00		64	58	60	81	6	VR	28.86	29.81	04	BKN	004	8.00	-RA		62	60	61	93	0	00	29.08	30.01			
07	CLR	NC	10.00		65	57	60	76	6	06	28.89	29.84	07	OVC	090	5.00	RA BR		61	58	59	90	3	06	29.09	30.03			
10	CLR	NC	10.00		69	58	62	68	8	05	28.91	29.86	10	OVC	080	10.00			61	58	59	90	5	09	29.10	30.06			
13	CLR	NC	10.00		80	61	68	52	8	05	28.91	29.84	13	BKN	055	10.00			65	57	60	76	6	07	29.10	30.06			
16	FEW	044	10.00		80	61	68	52	7	VR	28.91	29.84	16	OVC	021	10.00			64	54	58	70	6	VR	29.09	30.04			
19	FEW	070	10.00		72	60	65	66	0	00	28.96	29.90	19	CLR	NC	10.00			58	53	55	84	0	00	29.10	30.06			
22	CLR	NC	10.00		69	59	63	70	3	VR	29.00	29.94	22	OVC	026	10.00			60	53	56	78	0	00	29.10	30.07			
<b>SUNRISE: 0635</b>					<b>OCT 05</b>					<b>SUNSET: 1815</b>					<b>SUNRISE: 0640</b>					<b>OCT 11</b>					<b>SUNSET: 1807</b>				
01	CLR	NC	10.00		64	58	60	81	0	00	29.01	29.94	01	OVC	036	10.00			60	53	56	78	0	00	29.08	30.03			
04	CLR	NC	10.00		64	57	60	78	5	05	29.02	29.96	04	OVC	024	10.00			57	54	55	90	0	00	29.07	30.02			
07	CLR	NC	10.00		61	56	58	84	0	00	29.04	29.98	07	BKN	025	10.00			56	53	54	90	0	00	29.09	30.05			
10	CLR	NC	10.00		70	58	63	66	6	VR	29.06	30.00	10	OVC	027	10.00			64	54	58	70	0	00	29.10	30.05			
13	CLR	NC	10.00		79	60	67	52	9	08	29.04	29.97	13	SCT	033	10.00			69	53	60	57	5	08	29.06	30.00			
16	CLR	NC	10.00		83	62	69	49			29.00	29.93	16	CLR	NC	10.00			71	51	60	49	5	26	28.98	29.93			
19	CLR	NC	10.00		72	62	66	71	0	00	29.03	29.97	19	CLR	NC	10.00			62	55	58	78	0	00	28.97	29.93			
22	CLR	NC	10.00		66	62	64	87	0	00	29.05	29.99	22	CLR	NC	10.00			56	53	54	90	0	00	28.98	29.94			
<b>SUNRISE: 0636</b>					<b>OCT 06</b>					<b>SUNSET: 1814</b>					<b>SUNRISE: 0641</b>					<b>OCT 12</b>					<b>SUNSET: 1806</b>				
01	CLR	NC	10.00		64	60	62	87	0	00	29.06	29.99	01	CLR	NC	10.00			53	51	52	93	0	00	28.98	29.94			
04	CLR	NC	10.00		62	59	60	90	0	00	29.06	29.99	04	VV	002	0.50	FG		52	51	51	97	0	00	28.96	29.91			
07	CLR	NC	10.00		61	59	60	93	0	00	29.09	30.03	07	VV	002	0.25	FG		51	50	50	96	0	00	28.97	29.94			
10	CLR	NC	10.00		71	58	63	63	5	VR	29.12	30.06	10	OVC	003	9.00			56	54	55	93	0	00	28.99	29.95			
13	CLR	NC	10.00		79	53	63	41	0	00	29.09	30.03	13	CLR	NC	10.00			68	57	61	68	6	26	28.91	29.87			
16	CLR	NC	10.00		82	56	66	41	3	VR	29.04	29.98	16	CLR	NC	10.00			74	50	60	43	6	20	28.83	29.78			
19	SCT	055	10.00		72	62	66	71	0	00	29.06	30.00	19	CLR	NC	10.00			68	55	60	63	3	24	28.80	29.76			
22	CLR	NC	10.00		65	61	63	87	0	00	29.08	30.02	22	BKN	100	10.00			63	55	58	76	0	00	28.80	29.75			

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN OCTOBER 2015

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
<b>SUNRISE: 0642</b>					<b>OCT 13</b>					<b>SUNSET: 1804</b>					<b>SUNRISE: 0647</b>					<b>OCT 19</b>					<b>SUNSET: 1756</b>				
01	OVC	060	9.00		61	59	60	93	3	VR	28.83	29.78	01	CLR	NC	10.00		39	35	37	86	0	00	29.46	30.46				
04	OVC	027	8.00		60	58	59	93	0	00	28.80	29.73	04	CLR	NC	10.00		37	34	36	89	0	00	29.48	30.47				
07	OVC	019	7.00		60	58	59	93	5	VR	28.83	29.78	07	CLR	NC	10.00		36	34	35	93	0	00	29.52	30.53				
10	BKN	014	10.00		65	58	61	78	6	VR	28.85	29.80	10	CLR	NC	10.00		51	34	43	52	3	VR	29.52	30.53				
13	CLR	NC	10.00		72	54	61	53	6	VR	28.84	29.78	13	CLR	NC	10.00		62	32	48	32	5	VR	29.47	30.45				
16	CLR	NC	10.00		75	43	58	32	6	VR	28.84	29.78	16	CLR	NC	10.00		65	36	51	34	6	29	29.39	30.38				
19	CLR	NC	10.00		66	45	55	47	0	00	28.89	29.84	19	CLR	NC	10.00		53	42	48	66	0	00	29.38	30.38				
22	CLR	NC	10.00		59	49	54	69	0	00	28.96	29.91	22	CLR	NC	10.00		45	41	43	86	0	00	29.40	30.40				
<b>SUNRISE: 0643</b>					<b>OCT 14</b>					<b>SUNSET: 1803</b>					<b>SUNRISE: 0648</b>					<b>OCT 20</b>					<b>SUNSET: 1755</b>				
01	CLR	NC	10.00		52	49	50	89	0	00	28.97	29.92	01	CLR	NC	10.00		44	40	42	85	0	00	29.41	30.39				
04	CLR	NC	10.00		50	47	48	89	0	00	28.98	29.93	04	CLR	NC	10.00		43	40	42	89	3	26	29.42	30.40				
07	CLR	NC	10.00		47	44	46	90	0	00	29.02	29.98	07	CLR	NC	10.00		40	37	39	89	0	00	29.46	30.45				
10	CLR	NC	10.00		62	50	55	65	3	VR	29.07	30.02	10	CLR	NC	10.00		54	40	47	59	5	VR	29.46	30.45				
13	CLR	NC	10.00		72	44	57	37	7	VR	29.04	29.99	13	CLR	NC	10.00		64	38	51	38	5	VR	29.41	30.39				
16	CLR	NC	10.00		74	42	57	32	6	22	29.01	29.96	16	CLR	NC	10.00		67	38	52	35	0	00	29.34	30.32				
19	CLR	NC	10.00		62	47	54	58	0	00	29.07	30.04	19	CLR	NC	10.00		54	43	49	67	0	00	29.33	30.33				
22	CLR	NC	10.00		53	48	50	83	0	00	29.10	30.07	22	CLR	NC	10.00		47	42	45	83	0	00	29.35	30.33				
<b>SUNRISE: 0644</b>					<b>OCT 15</b>					<b>SUNSET: 1802</b>					<b>SUNRISE: 0649</b>					<b>OCT 21</b>					<b>SUNSET: 1754</b>				
01	CLR	NC	10.00		49	46	48	90	0	00	29.12	30.08	01	CLR	NC	10.00		43	41	42	93	0	00	29.37	30.35				
04	CLR	NC	10.00		47	45	46	93	0	00	29.14	30.11	04	SCT	001	8.00	FG	41	38	40	89	0	00	29.38	30.36				
07	CLR	NC	10.00		45	42	44	90	0	00	29.19	30.17	07	VV	002	0.50	FG	42	41	42	96	0	00	29.44	30.43				
10	CLR	NC	10.00		61	48	54	63	3	VR	29.23	30.21	10	CLR	NC	10.00		54	46	50	75	0	00	29.46	30.45				
13	CLR	NC	10.00		71	45	57	39	0	00	29.18	30.14	13	CLR	NC	10.00		69	45	56	42	0	00	29.39	30.37				
16	CLR	NC	10.00		74	44	58	34	6	19	29.13	30.09	16	CLR	NC	10.00		73	47	59	40	0	00	29.33	30.31				
19	CLR	NC	10.00		62	50	55	65	0	00	29.13	30.10	19	CLR	NC	10.00		58	51	54	78	0	00	29.34	30.33				
22	CLR	NC	10.00		57	50	53	78	0	00	29.16	30.13	22	CLR	NC	10.00		50	47	48	89	0	00	29.35	30.34				
<b>SUNRISE: 0644</b>					<b>OCT 16</b>					<b>SUNSET: 1800</b>					<b>SUNRISE: 0650</b>					<b>OCT 22</b>					<b>SUNSET: 1753</b>				
01	CLR	NC	10.00		56	50	53	81	0	00	29.15	30.11	01	CLR	NC	10.00		47	44	46	90	0	00	29.35	30.32				
04	FEW	110	10.00		56	51	53	84	0	00	29.15	30.10	04	VV	002	0.25	FG	45	43	44	93	0	00	29.35	30.32				
07	OVC	095	10.00		58	52	55	81	0	00	29.18	30.14	07	VV	002	0.25	FG	46	44	45	93	0	00	29.40	30.39				
10	SCT	110	10.00		64	47	55	54	0	00	29.26	30.23	10	FEW	003	10.00		54	51	52	90	0	00	29.42	30.40				
13	CLR	NC	10.00		70	30	51	23	8	33	29.24	30.20	13	CLR	NC	10.00		72	50	60	46	3	26	29.36	30.32				
16	CLR	NC	10.00		69	29	50	22	5	VR	29.23	30.19	16	CLR	NC	10.00		75	49	60	40	3	13	29.29	30.25				
19	CLR	NC	10.00		57	32	46	39	0	00	29.26	30.23	19	CLR	NC	10.00		60	51	55	72	0	00	29.29	30.27				
22	CLR	NC	10.00		48	38	43	68	0	00	29.29	30.27	22	CLR	NC	10.00		52	49	50	89	0	00	29.30	30.28				
<b>SUNRISE: 0645</b>					<b>OCT 17</b>					<b>SUNSET: 1759</b>					<b>SUNRISE: 0651</b>					<b>OCT 23</b>					<b>SUNSET: 1752</b>				
01	CLR	NC	10.00		44	38	41	79	0	00	29.32	30.29	01	CLR	NC	10.00		49	46	48	90	0	00	29.28	30.25				
04	CLR	NC	10.00		40	37	39	89	0	00	29.31	30.29	04	VV	002	0.25	FG	47	46	47	97	0	00	29.27	30.24				
07	CLR	NC	10.00		38	35	37	89	0	00	29.34	30.34	07	VV	002	0.25	FG	48	47	47	96	0	00	29.30	30.28				
10	CLR	NC	10.00		54	35	45	49	0	00	29.37	30.35	10	CLR	NC	10.00		57	52	54	83	0	00	29.29	30.27				
13	CLR	NC	10.00		63	28	47	27	0	00	29.32	30.30	13	CLR	NC	10.00		73	50	60	44	0	00	29.22	30.19				
16	CLR	NC	10.00		65	25	47	22	6	VR	29.30	30.28	16	CLR	NC	10.00		75	52	62	45	0	00	29.17	30.14				
19	CLR	NC	10.00		55	30	44	38	5	33	29.34	30.34	19	CLR	NC	10.00		63	55	58	76	0	00	29.20	30.17				
22	CLR	NC	10.00		50	33	42	52	0	00	29.39	30.38	22	CLR	NC	10.00		56	52	54	87	0	00	29.21	30.18				
<b>SUNRISE: 0646</b>					<b>OCT 18</b>					<b>SUNSET: 1758</b>					<b>SUNRISE: 0652</b>					<b>OCT 24</b>					<b>SUNSET: 1750</b>				
01	CLR	NC	10.00		41	36	39	82	0	00	29.40	30.39	01	CLR	NC	10.00		55	52	53	90	0	00	29.18	30.14				
04	CLR	NC	10.00		38	34	36	86	0	00	29.42	30.41	04	CLR	NC	10.00		56	53	54	90	0	00	29.18	30.13				
07	CLR	NC	10.00		36	33	35	89	0	00	29.47	30.47	07	CLR	NC	10.00		56	53	54	90	0	00	29.20	30.17				
10	CLR	NC	10.00		51	35	44	54	9	07	29.52	30.52	10	OVC	110	10.00		61	55	58	81	0	00	29.23	30.20				
13	CLR	NC	10.00		57	25	43	29			29.49	30.49	13	SCT	120	10.00		69	55	61	61	5	VR	29.20	30.17				
16	CLR	NC	10.00		60	21	44	22			29.44	30.43	16	BKN	120	10.00	-RA	67	60	63	79	0	00	29.18	30.14				
19	CLR	NC	10.00		50	29	41	44	0	00	29.45	30.45	19	FEW	120	10.00		65	62	63	90	0	00	29.18	30.14				
22	CLR	NC	10.00		42	35	39	76	0	00	29.47	30.47	22	SCT	120	7.00		63	60	61	90	0	00	29.18	30.14				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

OCTOBER 2015

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)														
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL													
<b>SUNRISE: 0653</b>					<b>OCT 25</b>								<b>SUNSET: 1749</b>												
01	BKN	070	7.00		62	60	61	93	0	00	29.17	30.13	04	CLR	NC	10.00		46	42	44	86	0	00	29.13	30.10
04	OVC	080	10.00		62	60	61	93	0	00	29.18	30.13	07	CLR	NC	10.00		47	43	45	86	0	00	29.12	30.08
07	BKN	070	9.00		63	60	61	90	0	00	29.21	30.17	10	CLR	NC	10.00		53	43	48	69	0	00	29.14	30.11
10	OVC	038	10.00		66	61	63	84	0	00	29.24	30.20	13	OVC	100	10.00		61	45	53	56	5	25	29.12	30.09
13	OVC	037	10.00		70	60	64	71	0	00	29.21	30.16	16	BKN	110	10.00		61	47	54	60	3	27	29.08	30.05
16	BKN	032	10.00		67	58	62	73	7	07	29.21	30.17	19	OVC	100	10.00		57	52	54	83	0	00	29.04	30.01
19	BKN	060	10.00		62	57	59	84	3	06	29.21	30.17	22	BKN	060	10.00		56	53	54	90	0	00	29.00	29.96
22	BKN	027	10.00		61	55	58	81	0	00	29.24	30.20													
<b>SUNRISE: 0654</b>					<b>OCT 26</b>								<b>SUNSET: 1748</b>												
01	BKN	019	10.00		61	54	57	78	7	05	29.22	30.17													
04	OVC	110	10.00		60	54	57	80	0	00	29.21	30.17													
07	OVC	090	10.00	-RA	58	55	56	90	3	07	29.24	30.20													
10	BKN	100	10.00		60	54	57	80	6	VR	29.26	30.23													
13	OVC	110	10.00		64	57	60	78	3	VR	29.24	30.20													
16	OVC	100	10.00	-RA	63	60	61	90	0	00	29.24	30.20													
19	OVC	100	10.00	-RA	60	58	59	93	6	VR	29.24	30.21													
22	OVC	100	10.00	-RA	59	56	57	90	6	06	29.24	30.20													
<b>SUNRISE: 0654</b>					<b>OCT 27</b>								<b>SUNSET: 1747</b>												
01	OVC	075	5.00	RA BR	57	55	56	93	7	06	29.25	30.22													
04	OVC	100	10.00	-RA	52	49	50	89	7	VR	29.23	30.20													
07	OVC	047	10.00		51	48	49	89			29.21	30.18													
10	OVC	100	10.00	-RA	52	49	50	89	3	VR	29.21	30.18													
13	OVC	100	10.00	-RA	55	52	53	90	7	VR	29.10	30.08													
16	OVC	049	10.00		58	54	56	87	3	VR	29.02	29.99													
19	OVC	080	10.00		59	54	56	83	0	00	29.00	29.97													
22	OVC	044	10.00	-RA	58	55	56	90	0	00	28.97	29.94													
<b>SUNRISE: 0655</b>					<b>OCT 28</b>								<b>SUNSET: 1746</b>												
01	OVC	049	10.00		57	55	56	93	3	07	28.90	29.86													
04	OVC	034	10.00	-RA	58	56	57	93	0	00	28.83	29.79													
07	OVC	035	7.00	-RA	58	56	57	93	0	00	28.80	29.75													
10	OVC	010	2.00	-RA BR	60	58	59	93	5	24	28.79	29.75													
13	OVC	007	10.00		65	62	63	90	5	VR	28.77	29.72													
16	FEW	021	10.00		71	62	65	73	5	VR	28.76	29.70													
19	FEW	041	10.00		66	60	62	81	3	VR	28.78	29.73													
22	CLR	NC	10.00		61	56	58	84	3	VR	28.83	29.78													
<b>SUNRISE: 0656</b>					<b>OCT 29</b>								<b>SUNSET: 1745</b>												
01	CLR	NC	10.00		57	55	56	93	0	00	28.85	29.80													
04	OVC	075	10.00		58	56	57	93	0	00	28.85	29.80													
07	OVC	075	10.00		58	56	57	93	3	VR	28.88	29.83													
10	OVC	080	10.00		62	56	59	80	0	00	28.93	29.88													
13	CLR	NC	10.00		69	49	58	49	5	18	28.91	29.86													
16	CLR	NC	10.00		71	37	54	29	9	28	28.90	29.85													
19	CLR	NC	10.00		58	44	51	60	0	00	28.94	29.91													
22	FEW	060	10.00		51	46	48	83	0	00	29.01	29.97													
<b>SUNRISE: 0657</b>					<b>OCT 30</b>								<b>SUNSET: 1744</b>												
01	FEW	055	10.00		47	44	46	90	0	00	29.05	30.01													
04	CLR	NC	10.00		45	36	41	71	0	00	29.10	30.06													
07	CLR	NC	10.00		40	36	38	86	0	00	29.14	30.12													
10	CLR	NC	10.00		53	34	44	48	5	VR	29.17	30.16													
13	CLR	NC	10.00		59	36	48	42	7	VR	29.14	30.12													
16	CLR	NC	10.00		62	37	50	40	0	00	29.12	30.09													
19	CLR	NC	10.00		51	41	46	69	0	00	29.10	30.10													
22	CLR	NC	10.00		47	42	45	83	0	00	29.13	30.11													

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)														
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL													
<b>SUNRISE: 0658</b>					<b>OCT 31</b>								<b>SUNSET: 1743</b>												
01	CLR	NC	10.00		46	42	44	86	0	00	29.13	30.10													
04	CLR	NC	10.00		47	43	45	86	0	00	29.12	30.08													
07	CLR	NC	10.00		47	44	46	90	0	00	29.13	30.11													
10	CLR	NC	10.00		53	43	48	69	0	00	29.14	30.13													
13	OVC	100	10.00		61	45	53	56	5	25	29.12	30.09													
16	BKN	110	10.00		61	47	54	60	3	27	29.08	30.05													
19	OVC	100	10.00	-RA	57	52	54	83	0	00	29.04	30.01													
22	BKN	060	10.00		56	53	54	90	0	00	29.00	29.96													

## 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.

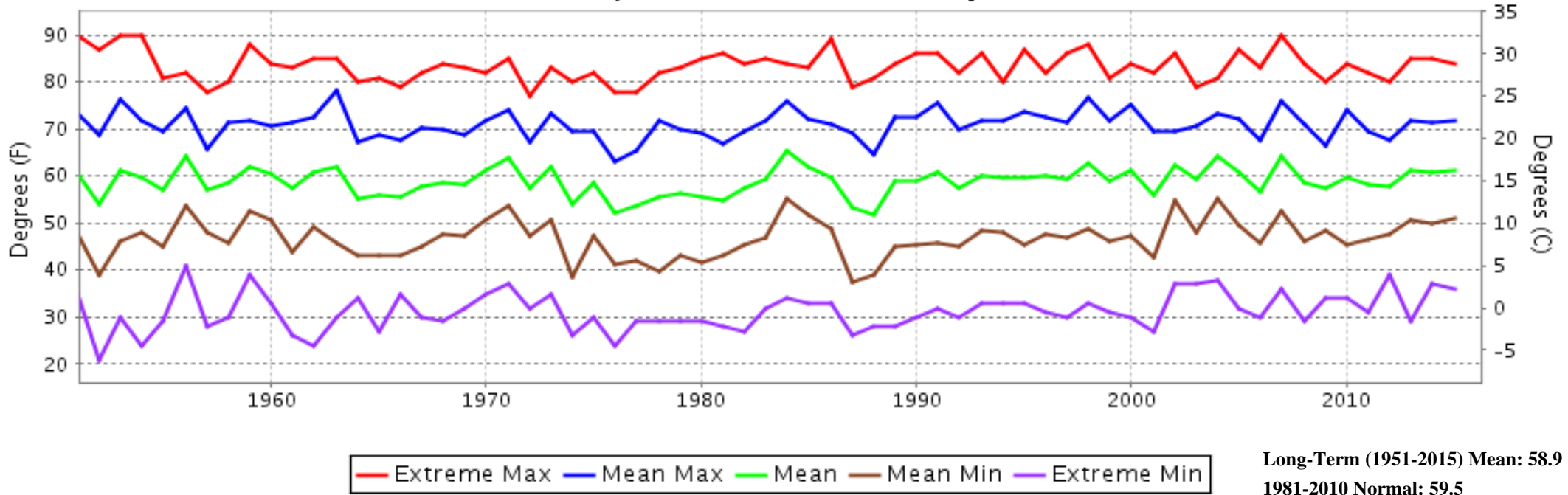
& = Original observation contained additional weather elements.

See page 3 for additional notes.

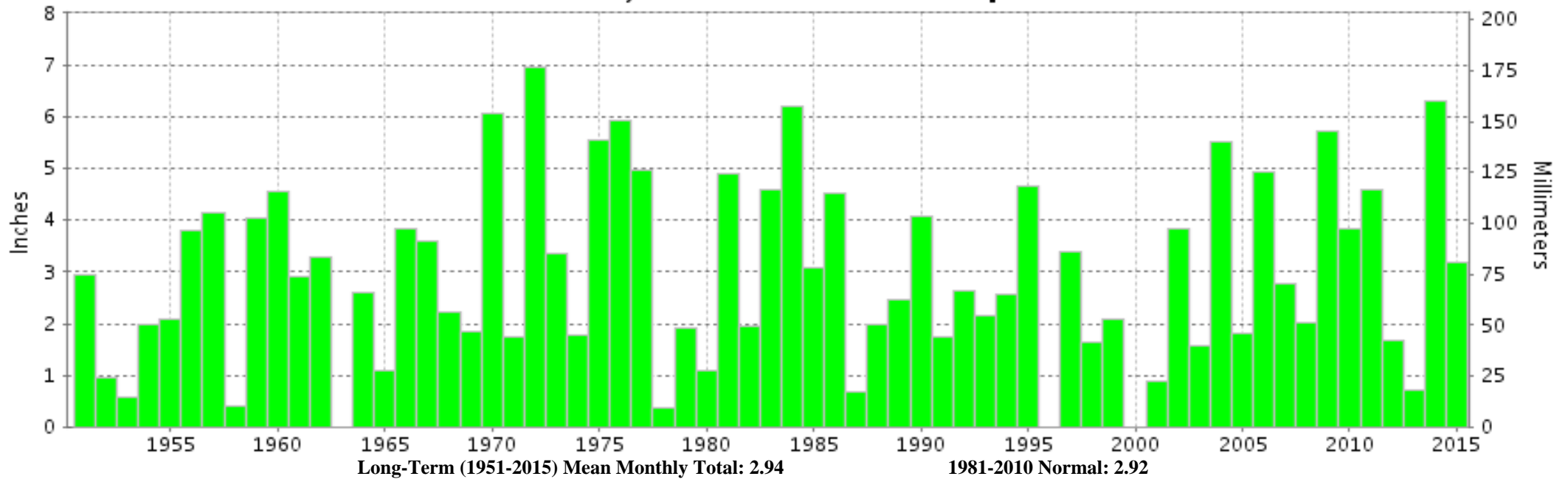
## SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	55	51	53	87	29.11	30.07	9.71	1	4	07
02	55	51	53	86	29.12	30.07	9.74	1	xx	xx
03	54	50	52	87	29.11	30.07	9.39	1	xx	xx
04	54	50	52	88	29.11	30.07	8.87	1	xx	xx
05	53	50	52	89	29.12	30.07	8.86	1	xx	xx
06	53	50	51	89	29.13	30.09	8.16	1	2	06
07	53	50	51	90	29.14	30.10	7.89	1	4	07
08	54	51	52	88	29.15	30.12	7.73	1	xx	xx
09	57	52	54	82	29.16	30.13	8.46	2	2	06
10	61	51	56	72	29.16	30.13	9.68	3	3	06
11	64	51	57	65	29.16	30.12	9.58	3	3	08
12	66	50	57	58	29.14	30.11	9.74	3	1	36
13	68	50	58	55	29.12	30.08	10.00	4	1	01
14	70	50	59	52	29.10	30.06	9.84	4	2	29
15	70	49	59	51	29.09	30.05	9.66	4	1	30
16	70	49	59	51	29.09	30.04	9.71	4	2	29
17	69	50	59	53	29.09	30.04	9.77	3	1	33
18	66	51	58	62	29.09	30.05	9.84	2	3	29
19	62	52	56	71	29.10	30.07	9.90	1	2	36
20	60	52	55	77	29.11	30.07	9.94	2	3	06
21	58	52	55	80	29.12	30.08	9.77	1	4	07
22	57	52	54	82	29.12	30.08	9.90	1	xx	xx
23	56	51	54	84	29.12	30.09	9.74	1	1	05
24	55	51	53	86	29.12	30.08	9.55	1	xx	xx

## OAK RIDGE, TN OCTOBER Temperatures



## OAK RIDGE, TN OCTOBER Precipitation





**OCTOBER 2015  
OAK RIDGE, TN**

## **LOCAL CLIMATOLOGICAL DATA**

### **NOAA, National Centers for Environmental Information**

*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 Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.*

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

**DIRECTOR**

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : [www.ncdc.noaa.gov/IPS/lcd/lcd.html](http://www.ncdc.noaa.gov/IPS/lcd/lcd.html)

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