



# SEPTEMBER 2014 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		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			
01	92	70	81	7	70	73	0	16				0.00	29.13	30.06	1.4	20	2.5	18	19	10	22	01		
02	92*	71	82*	8	70	73	0	17	RA FG BR			0.68	29.10	30.02	1.2	23	3.7	29*	18	15	20	02		
03	85	71	78	4	70	72	0	13				0.00	29.10	30.03	0.5	09	1.2	12	07	8	07	03		
04	88	73	81	8	70	73	0	16	RA			T	29.15	30.09	0.6	22	1.9	13	18	10	19	04		
05	88	69	79	6	70	73	0	14	BR			0.00	29.18	30.11	0.4	18	1.1	9	26	7	17	05		
06	91	70	81	8	70	73	0	16	RA BR			0.29	29.10	30.02	0.1	29	1.3	28	02	14	36	06		
07	87	68	78	5	68	70	0	13	RA BR			T	29.09	30.02	1.3	06	3.0	14	06	9	07	07		
08	87	66	77	5	67	70	0	12				0.00	29.09	30.03	0.3	08	1.2	9	15	7	16	08		
09	84	71	78	6	69	71	0	13	RA			T	29.13	30.05	1.2	22	2.0	12	27	8	21	09		
10	86	70	78	6	68	71	0	13				0.00	29.07	30.00	0.9	22	3.3	21	20	13	19	10		
11	87	73	80	8	71	72	0	15	RA FG BR			1.36	29.05	29.99	1.4	26	2.4	28	32	15*	32	11		
12	83	69	76	5	69	71	0	11	FG BR			0.00	29.10	30.04	0.8	07	1.5	10	36	6	07	12		
13	73	64	69	-2	61	64	0	4				0.00	29.19	30.15	0.7	06	3.1	17	33	13	07	13		
14	77	61	69	-2	60	63	0	4				0.00	29.23	30.18	0.2	06	1.9	11	07	8	06	14		
15	76	65	71	1	66	67	0	6	RA FG+ BR			0.01	29.21	30.15	0.7	23	1.8	11	27	8	22	15		
16	80	62	71	1	64	67	0	6				0.00	29.11	30.04	0.5	27	2.0	14	28	9	26	16		
17	79	57	68	-2	56	60	0	3	BR			0.00	29.03	29.98	0.1	09	1.9	11	16	8	17	17		
18	79	60	70	0	57	61	0	5				0.00	29.03	30.00	0.5	09	1.2	12	07	8	07	18		
19	85	57	71	2	60	64	0	6				0.00	29.11	30.07	0.7	10	1.5	10	14	7	20	19		
20	85	61	73	4	61	65	0	8	FG+ FG BR			0.00	29.15	30.08	0.8	27	1.2	10	27	8	26	20		
21	80	62	71	3	64	66	0	6	RA BR			0.12	29.02	29.96	1.2	23	2.7	16	35	10	35	21		
22	74	54	64	-4	49	55	1	0				0.00	29.15	30.13	1.5	07	2.7	21	07	14	06	22		
23	78	50*	64*	-4	50	56	1	0				0.00	29.27	30.24	1.3	08	2.2	15	07	12	07	23		
24	80	54	67	0	53	58	0	2				0.00	29.31	30.27	1.7	06	2.6	15	06	10	07	24		
25	84	56	70	3	59	62	0	5				0.00	29.26	30.21	0.7	09	2.1	20	07	13	07	25		
26	85	61	73	6	62	66	0	8				0.00	29.20	30.14	0.3	07	1.4	14	07	9	06	26		
27	82	63	73	7	62	65	0	8	FG BR			0.00	29.20	30.15	0.2	09	0.5	9	07	7	07	27		
28	81	62	72	6	62	65	0	7	RA FG BR			T	29.18	30.12	0.3	09	0.3	9	09	6	09	28		
29	82	63	73	8	63	66	0	8	RA BR			0.06	29.05	29.99	0.3	13	0.6	9	09	6	07	29		
30	83	60	72	7	61	63	0	7	FG+ FG BR			0.00	28.99	29.94	0.2	24	0.3	10	10	6	09	30		

83.1	63.8	73.4	☼	63.4	66.5	0.1	8.7	< MONTHLY AVERAGES   TOTALS >				2.52	29.13	30.08	0.2	14	1.8	< MONTHLY AVERAGES					
1.4	4.1	2.7		----- DEPARTURE FROM NORMAL -----				-1.17	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
<b>DEGREE DAYS</b>								GREATEST 24-HR PRECIPITATION : 1.36 DATE : 11				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL :				MAXIMUM : 30.34				24 1001							
TOTAL DEPARTURE								GREATEST SNOW DEPTH :				MINIMUM : 29.87				30 1720							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 3				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 6			
TOTAL DEPARTURE								THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 4			
HEATING : 2 -19												MINIMUM TEMP <= 0 : 0				HEAVY FOG : 3				SNOWFALL >= 1.0 INCH :			
COOLING : 262 -70																							

SEPTEMBER 2014  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
SEPTEMBER 2014

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							0.09	0.49	0.06	0.03	0.01	02	0.68	0.68	
03													03												03	0.00	0.00	
04											T		04												04	T	T	
05													05												05	0.00	0.00	
06													06					T	0.29					06	0.29	0.29		
07													07					T						07	T	T		
08													08												08	0.00	0.00	
09	T												09												09	T	T	
10													10												10	0.00	0.00	
11						0.01							11		0.03	0.99	0.27	0.04					0.02	11	1.36	1.36		
12													12											12	0.00	0.00		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15				T	0.01						15	0.01	0.01		
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	0.11	T	T	0.01							21	0.12	0.12		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28													28											28	T	T		
29	0.01	0.01	0.04	T									29											29	0.06	0.06		
30													30											30	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)	0.35	0.46	0.53	0.58	0.92	1.00	1.02	1.11	1.14	1.28	1.33	1.33
Ending Date	02	02	02	11	11	11	11	11	11	11	11	11
Ending Time (Hr/Min)	2005	2007	2009	1431	1431	1432	1457	1518	1538	1557	1616	1616

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 SEPTEMBER 2014

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	3.00	10.00	
03	10.00	10.00	
04	10.00	10.00	
05	1.50	10.00	
06	1.25	10.00	
07	1.50	10.00	
08	10.00	10.00	
09	10.00	10.00	
10	9.00	10.00	
11	1.25	10.00	
12	0.50	10.00	
13	10.00	10.00	
14	10.00	10.00	
15	0.25	10.00	
16	9.00	10.00	
17	6.00	10.00	
18	10.00	10.00	
19	8.00	10.00	
20	0.25	10.00	
21	7.00	10.00	
22	10.00	10.00	
23	10.00	10.00	
24	10.00	10.00	
25	10.00	10.00	
26	10.00	10.00	
27	0.50	10.00	
28	0.50	10.00	
29	6.00	10.00	
30	0.25	10.00	
<b>AVGS</b>	6.19	10.00	
<b>MINIMUM VISIBILITY (MILES)</b>			
	<b>&lt;= .25</b>	<b>&lt;= 3.0</b>	<b>&gt;= 7.0</b>
	3	11	17

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN SEPTEMBER 2014 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: 0608</b>	<b>SEP 01</b>				<b>SUNSET: 1906</b>								<b>SUNRISE: 0613</b>	<b>SEP 07</b>				<b>SUNSET: 1856</b>																																																																																																											
01	CLR	NC	10.00		71	69	70	94	0	00	29.13	30.07	01	CLR	NC	10.00		70	68	69	93	0	00	29.09	30.00	04	CLR	NC	7.00		69	67	68	93	0	00	29.08	30.00	07	FEW	120	10.00		72	70	71	94	0	00	29.17	30.11	10	CLR	NC	10.00		79	72	74	79	0	00	29.17	30.11	13	SCT	034	10.00		88	72	77	59	6	VR	29.14	30.06	16	CLR	NC	10.00		89	69	75	52	6	21	29.09	30.01	19	CLR	NC	10.00		85	71	75	63	3	19	29.09	30.01	22	CLR	NC	10.00		77	72	74	85	0	00	29.13	30.05	22	CLR	NC	10.00		69	64	66	84	3	06	29.10	30.04
				<b>SUNRISE: 0609</b>	<b>SEP 02</b>				<b>SUNSET: 1905</b>								<b>SUNRISE: 0614</b>	<b>SEP 08</b>				<b>SUNSET: 1855</b>																																																																																																											
01	CLR	NC	10.00		75	71	72	88	0	00	29.12	30.03	01	CLR	NC	10.00		68	64	65	87	3	07	29.09	30.01	04	CLR	NC	10.00		74	70	71	88	0	00	29.13	30.04	07	CLR	NC	10.00		74	70	71	88	0	00	29.14	30.07	10	CLR	NC	10.00		82	71	74	69	3	VR	29.14	30.06	13	FEW	041	10.00		89	70	76	53	8	23	29.10	30.02	16	FEW	045	10.00		91	69	76	49	7	VR	29.02	29.93	19	BKN	100	10.00		81	67	72	62	11	33	29.04	29.96	22	BKN	120	5.00	RA BR	73	71	72	94	3	28	29.10	30.02	22	BKN	046	10.00		74	71	72	91	0	00	29.10	30.03
				<b>SUNRISE: 0610</b>	<b>SEP 03</b>				<b>SUNSET: 1903</b>								<b>SUNRISE: 0615</b>	<b>SEP 09</b>				<b>SUNSET: 1853</b>																																																																																																											
01	BKN	004	10.00		72	70	71	94	0	00	29.10	30.03	01	SCT	075	10.00		73	69	70	87	0	00	29.13	30.06	04	OVC	110	10.00		71	69	70	94	0	00	29.09	30.01	07	CLR	NC	10.00		72	69	70	91	0	00	29.10	30.02	10	OVC	050	10.00		75	70	72	84	0	00	29.14	30.08	13	FEW	047	10.00		80	69	73	69	0	00	29.13	30.06	16	FEW	027	10.00		82	70	74	67	3	VR	29.09	30.01	19	CLR	NC	10.00		79	71	74	77	0	00	29.09	30.01	22	CLR	NC	10.00		74	72	73	94	0	00	29.12	30.05	22	CLR	NC	10.00		73	70	71	90	0	00	29.13	30.04
				<b>SUNRISE: 0611</b>	<b>SEP 04</b>				<b>SUNSET: 1902</b>								<b>SUNRISE: 0615</b>	<b>SEP 10</b>				<b>SUNSET: 1852</b>																																																																																																											
01	CLR	NC	10.00		74	71	72	91	0	00	29.13	30.06	01	BKN	040	9.00		71	69	70	94	0	00	29.09	30.02	04	OVC	024	10.00		75	70	72	84	0	00	29.14	30.07	07	CLR	NC	10.00		75	71	72	88	0	00	29.16	30.09	10	BKN	047	10.00		79	70	73	74	3	VR	29.20	30.14	13	FEW	120	10.00		83	70	74	65	3	VR	29.19	30.12	16	BKN	110	10.00		87	69	75	55	6	20	29.14	30.06	19	CLR	NC	10.00		82	71	74	69	3	VR	29.16	30.09	22	CLR	NC	10.00		75	71	72	88	0	00	29.20	30.13	22	FEW	050	10.00		77	67	70	71	0	00	29.03	29.95
				<b>SUNRISE: 0611</b>	<b>SEP 05</b>				<b>SUNSET: 1859</b>								<b>SUNRISE: 0616</b>	<b>SEP 11</b>				<b>SUNSET: 1850</b>																																																																																																											
01	CLR	NC	10.00		72	70	71	94	0	00	29.19	30.12	01	OVC	047	10.00		75	68	70	79	0	00	29.06	29.98	04	CLR	NC	10.00		71	69	70	94	0	00	29.19	30.11	07	SCT	002	10.00		70	68	69	93	0	00	29.23	30.16	10	FEW	060	10.00		77	71	73	82	0	00	29.26	30.19	13	FEW	026	10.00		83	71	75	67	5	22	29.20	30.13	16	CLR	NC	10.00		87	69	75	55	3	16	29.14	30.06	19	FEW	041	10.00		82	71	74	69	0	00	29.13	30.06	22	CLR	NC	10.00		77	73	74	88	0	00	29.14	30.07	22	CLR	NC	7.00		73	73	73	97	0	00	29.06	29.99
				<b>SUNRISE: 0612</b>	<b>SEP 06</b>				<b>SUNSET: 1858</b>								<b>SUNRISE: 0617</b>	<b>SEP 12</b>				<b>SUNSET: 1849</b>																																																																																																											
01	OVC	100	9.00		76	72	73	88	0	00	29.13	30.06	01	OVC	002	6.00	BR	72	71	71	97	0	00	29.10	30.02	04	BKN	002	8.00		74	72	73	94	0	00	29.12	30.03	07	OVC	002	1.25	BR	73	72	72	96	0	00	29.13	30.06	10	SCT	013	10.00		79	71	74	77	0	00	29.13	30.06	13	OVC	070	10.00		87	71	76	59	3	VR	29.09	30.01	16	FEW	042	10.00		89	70	76	53	0	00	29.03	29.94	19	CLR	NC	10.00		72	70	71	94	0	00	29.06	29.98	22	CLR	NC	10.00		71	69	70	94	0	00	29.10	30.04	22	BKN	011	10.00		70	66	67	87	0	00	29.12	30.05

## OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN  
SEPTEMBER 2014 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL
SUNRISE: 0618 SEP 13					SUNSET: 1847							SUNRISE: 0622 SEP 19					SUNSET: 1839								
01	OVC	007	10.00		70	66	67	87	0	00	29.12	30.04	01	CLR	NC	10.00		60	58	59	93	0	00	29.10	30.04
04	OVC	007	10.00		69	66	67	90	0	00	29.12	30.04	04	CLR	NC	10.00		58	56	57	93	0	00	29.10	30.05
07	OVC	022	10.00		69	65	66	87	3	VR	29.17	30.11	07	CLR	NC	8.00		58	56	57	93	3	07	29.14	30.10
10	BKN	033	10.00		70	61	64	73	6	VR	29.23	30.17	10	CLR	NC	10.00		70	59	63	68	3	12	29.15	30.10
13	OVC	033	10.00		72	59	64	64	5	VR	29.25	30.19	13	CLR	NC	10.00		81	60	68	49	5	VR	29.13	30.07
16	OVC	029	10.00		72	58	64	61	3	VR	29.22	30.16	16	BKN	050	10.00		85	60	69	43	0	00	29.10	30.03
19	OVC	028	10.00		66	56	60	70	5	VR	29.25	30.20	19	SCT	080	10.00		75	66	69	74	0	00	29.12	30.06
22	OVC	036	10.00		64	57	60	78	3	VR	29.27	30.22	22	BKN	065	10.00		74	65	68	74	0	00	29.16	30.10
SUNRISE: 0618 SEP 14					SUNSET: 1846							SUNRISE: 0623 SEP 20					SUNSET: 1837								
01	OVC	029	10.00		63	57	60	81	3	VR	29.24	30.19	01	CLR	NC	10.00		68	62	64	81	0	00	29.18	30.11
04	FEW	036	10.00		61	56	58	84	0	00	29.22	30.17	04	CLR	NC	10.00		63	61	62	93	0	00	29.18	30.11
07	OVC	029	10.00		63	56	59	78	5	06	29.26	30.22	07	VV	002	0.25	FG	61	60	60	97	0	00	29.21	30.16
10	OVC	026	10.00		68	57	61	68	0	00	29.27	30.23	10	CLR	NC	10.00		74	61	66	64	3	VR	29.22	30.16
13	OVC	023	10.00		72	59	64	64	0	00	29.24	30.20	13	CLR	NC	10.00		81	59	67	47	5	VR	29.16	30.09
16	FEW	025	10.00		75	64	68	69	5	VR	29.20	30.15	16	CLR	NC	10.00		84	59	68	43	3	26	29.09	30.02
19	CLR	NC	10.00		72	66	68	82	0	00	29.19	30.14	19	CLR	NC	10.00		75	64	68	69	0	00	29.06	30.00
22	FEW	035	10.00		68	65	66	90	0	00	29.23	30.18	22	BKN	080	10.00		67	64	65	91	0	00	29.10	30.04
SUNRISE: 0619 SEP 15					SUNSET: 1845							SUNRISE: 0624 SEP 21					SUNSET: 1836								
01	SCT	034	10.00		65	63	64	93	0	00	29.23	30.18	01	CLR	NC	10.00		65	62	63	90	0	00	29.07	30.00
04	OVC	014	10.00		67	64	65	91	0	00	29.22	30.16	04	BKN	050	10.00		64	62	63	93	0	00	29.04	29.97
07	OVC	015	10.00		67	65	66	93	0	00	29.25	30.20	07	CLR	NC	10.00		64	62	63	93	3	24	29.05	29.99
10	OVC	009	10.00		69	65	66	87	5	VR	29.25	30.19	10	FEW	050	10.00		74	63	67	69	6	VR	29.06	30.00
13	OVC	019	10.00		73	66	68	79	6	21	29.21	30.16	13	OVC	090	7.00	-RA	74	70	71	88	0	00	29.01	29.95
16	SCT	110	10.00	-RA	76	66	69	72	5	26	29.17	30.11	16	BKN	080	10.00		75	70	72	84	6	20	28.96	29.89
19	SCT	120	10.00		71	68	69	90	0	00	29.16	30.11	19	FEW	080	10.00		74	69	71	85	0	00	28.97	29.91
22	BKN	001	2.50	BR	69	68	68	96	0	00	29.17	30.12	22	SCT	065	10.00		72	52	60	50	6	VR	29.05	29.98
SUNRISE: 0620 SEP 16					SUNSET: 1843							SUNRISE: 0625 SEP 22					SUNSET: 1834								
01	BKN	022	10.00		67	66	66	97	0	00	29.15	30.10	01	CLR	NC	10.00		59	54	56	83	0	00	29.09	30.03
04	OVC	010	10.00		70	67	68	90	0	00	29.13	30.06	04	CLR	NC	10.00		56	52	54	87	0	00	29.10	30.05
07	OVC	095	10.00		70	67	68	90	0	00	29.14	30.08	07	CLR	NC	10.00		56	50	53	81	0	00	29.16	30.11
10	BKN	080	10.00		74	64	68	71	3	VR	29.14	30.08	10	CLR	NC	10.00		65	48	56	54	10	06	29.20	30.15
13	BKN	080	10.00		78	66	70	67	5	VR	29.10	30.03	13	CLR	NC	10.00		72	47	58	41	3	VR	29.19	30.15
16	BKN	055	10.00		80	65	70	60	5	33	29.07	30.00	16	CLR	NC	10.00		74	48	59	40	6	VR	29.17	30.13
19	FEW	040	10.00		71	62	65	73	0	00	29.07	30.01	19	CLR	NC	10.00		65	47	55	52	3	VR	29.20	30.17
22	CLR	NC	10.00		64	61	62	90	0	00	29.09	30.03	22	CLR	NC	10.00		57	49	53	74	0	00	29.25	30.21
SUNRISE: 0621 SEP 17					SUNSET: 1842							SUNRISE: 0625 SEP 23					SUNSET: 1833								
01	CLR	NC	8.00		60	58	59	93	0	00	29.08	30.02	01	CLR	NC	10.00		54	49	51	83	3	06	29.26	30.22
04	FEW	037	6.00	BR	58	56	57	93	0	00	29.07	30.00	04	CLR	NC	10.00		51	48	49	89	3	11	29.26	30.22
07	BKN	041	10.00		59	55	57	87	0	00	29.08	30.02	07	CLR	NC	10.00		51	49	50	92	0	00	29.29	30.27
10	CLR	NC	10.00		67	54	59	63	6	VR	29.06	30.00	10	CLR	NC	10.00		64	49	56	58	5	VR	29.33	30.29
13	CLR	NC	10.00		74	54	62	50	0	00	29.02	29.96	13	CLR	NC	10.00		73	48	59	41	5	10	29.29	30.25
16	FEW	046	10.00		79	56	65	45	3	VR	28.98	29.92	16	CLR	NC	10.00		76	49	61	39	0	00	29.25	30.21
19	FEW	044	10.00		70	56	62	61	3	26	29.00	29.95	19	CLR	NC	10.00		68	53	59	59	0	00	29.25	30.22
22	CLR	NC	10.00		62	57	59	84	3	VR	29.00	29.94	22	CLR	NC	10.00		58	54	56	87	0	00	29.28	30.24
SUNRISE: 0621 SEP 18					SUNSET: 1840							SUNRISE: 0626 SEP 24					SUNSET: 1831								
01	BKN	100	10.00		62	57	59	84	0	00	29.02	29.96	01	CLR	NC	10.00		57	54	55	90	3	07	29.30	30.25
04	OVC	110	10.00		60	58	59	93	0	00	29.03	29.96	04	CLR	NC	10.00		56	53	54	90	0	00	29.30	30.26
07	OVC	095	10.00		61	58	59	90	0	00	29.05	30.00	07	CLR	NC	10.00		55	53	54	93	0	00	29.35	30.31
10	CLR	NC	10.00		72	56	62	57	3	VR	29.09	30.03	10	CLR	NC	10.00		66	54	59	65	10	07	29.38	30.34
13	CLR	NC	10.00		76	53	62	45	0	00	29.07	30.00	13	CLR	NC	10.00		76	53	62	45	5	VR	29.33	30.29
16	CLR	NC	10.00		78	55	64	45	5	VR	29.03	29.97	16	CLR	NC	10.00		79	49	62	35	3	VR	29.28	30.23
19	CLR	NC	10.00		70	60	64	71	0	00	29.04	29.98	19	CLR	NC	10.00		70	54	61	57	0	00	29.28	30.24
22	CLR	NC	10.00		63	60	61	90	0	00	29.09	30.03	22	CLR	NC	10.00		60	55	57	84	0	00	29.29	30.25

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

SEPTEMBER 2014 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
SUNRISE: 0627 SEP 25					SUNSET: 1830							
01	CLR	NC	10.00		58	54	56	87	0	00	29.29	30.24
04	CLR	NC	10.00		57	54	55	90	0	00	29.29	30.24
07	CLR	NC	10.00		57	54	55	90	0	00	29.32	30.28
10	CLR	NC	10.00		71	58	63	63	5	VR	29.32	30.27
13	CLR	NC	10.00		78	59	66	52	7	VR	29.26	30.21
16	BKN	055	10.00		81	59	67	47	8	09	29.20	30.14
19	CLR	NC	10.00		74	63	67	69	0	00	29.19	30.14
22	OVC	055	10.00		68	64	65	87	0	00	29.22	30.16
SUNRISE: 0628 SEP 26					SUNSET: 1828							
01	CLR	NC	10.00		66	63	64	90	0	00	29.21	30.15
04	CLR	NC	10.00		64	62	63	93	0	00	29.21	30.14
07	FEW	001	10.00		62	60	61	93	0	00	29.24	30.19
10	CLR	NC	10.00		74	63	67	69	5	VR	29.24	30.19
13	BKN	038	10.00		82	61	69	49	3	VR	29.20	30.14
16	BKN	060	10.00		84	61	69	46	6	VR	29.16	30.10
19	CLR	NC	10.00		75	63	67	66	0	00	29.16	30.11
22	FEW	100	10.00		68	64	65	87	0	00	29.19	30.14
SUNRISE: 0629 SEP 27					SUNSET: 1827							
01	CLR	NC	10.00		65	63	64	93	0	00	29.20	30.14
04	CLR	NC	10.00		63	61	62	93	0	00	29.20	30.14
07	OVC	021	10.00		64	62	63	93	0	00	29.23	30.18
10	OVC	037	10.00		71	63	66	76	3	VR	29.25	30.20
13	SCT	047	10.00		79	61	68	54	0	00	29.22	30.16
16	CLR	NC	10.00		78	59	66	52	0	00	29.17	30.11
19	CLR	NC	10.00		72	63	66	73	0	00	29.16	30.11
22	BKN	065	10.00		67	63	65	87	0	00	29.18	30.13
SUNRISE: 0629 SEP 28					SUNSET: 1825							
01	BKN	055	10.00		66	62	64	87	0	00	29.19	30.13
04	CLR	NC	10.00		63	61	62	93	3	10	29.20	30.15
07	VV	002	0.50	FG	62	61	61	96	0	00	29.22	30.17
10	CLR	NC	10.00		70	62	65	76	0	00	29.23	30.18
13	OVC	070	10.00		78	59	66	52	0	00	29.19	30.13
16	BKN	080	10.00		79	59	67	50	0	00	29.13	30.08
19	CLR	NC	10.00		72	64	67	76	0	00	29.13	30.07
22	OVC	075	10.00		70	64	66	82	0	00	29.13	30.06
SUNRISE: 0630 SEP 29					SUNSET: 1824							
01	OVC	080	10.00	-RA	67	65	66	93	3	09	29.10	30.04
04	SCT	046	9.00		66	65	65	96	0	00	29.09	30.02
07	OVC	090	8.00		66	65	65	96	0	00	29.10	30.04
10	FEW	095	10.00		70	65	67	84	0	00	29.10	30.05
13	FEW	031	10.00		78	62	68	58	0	00	29.05	29.98
16	CLR	NC	10.00		81	60	68	49	5	19	29.00	29.93
19	CLR	NC	10.00		72	64	67	76	0	00	28.99	29.93
22	CLR	NC	10.00		65	63	64	93	0	00	29.02	29.96
SUNRISE: 0631 SEP 30					SUNSET: 1822							
01	SCT	002	9.00		63	61	62	93	0	00	29.01	29.94
04	VV	002	0.50	FG	61	61	61	100	0	00	29.00	29.93
07	VV	002	0.25	FG	62	61	61	96	0	00	29.03	29.97
10	OVC	004	9.00		66	63	64	90	0	00	29.03	29.98
13	CLR	NC	10.00		75	64	68	69	0	00	29.00	29.94
16	CLR	NC	10.00		81	57	66	44	0	00	28.95	29.88
19	CLR	NC	10.00		70	63	66	79	0	00	28.97	29.91
22	CLR	NC	8.00		62	60	61	93	0	00	29.00	29.95

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

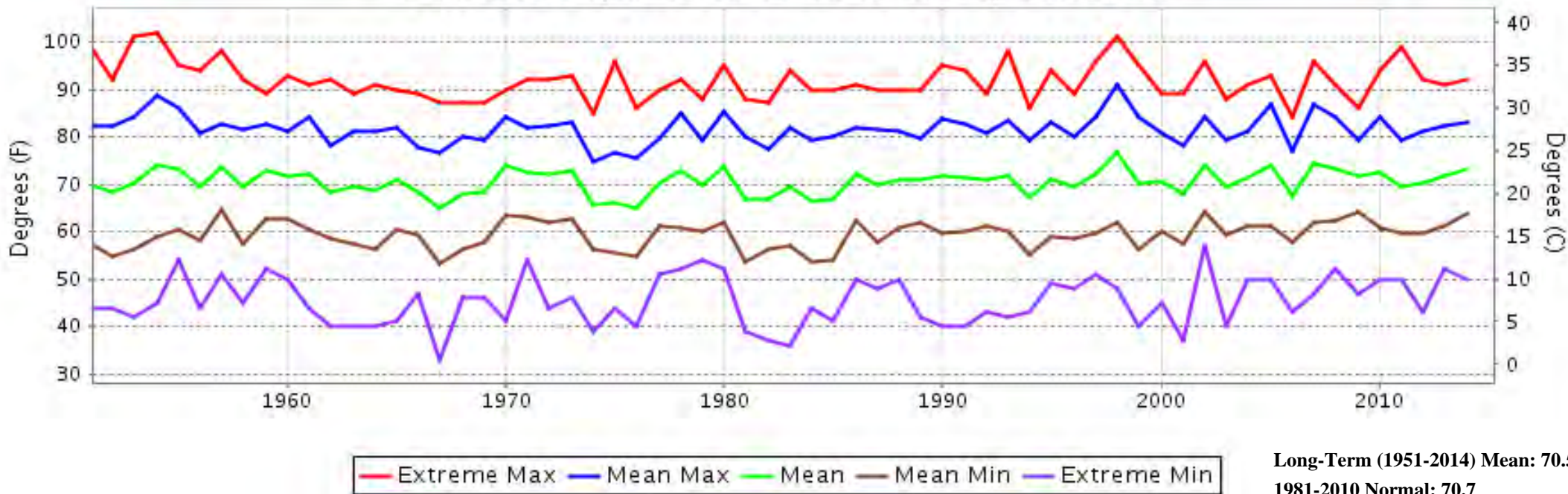
### 3-HOURLY OBSERVATION NOTES

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.

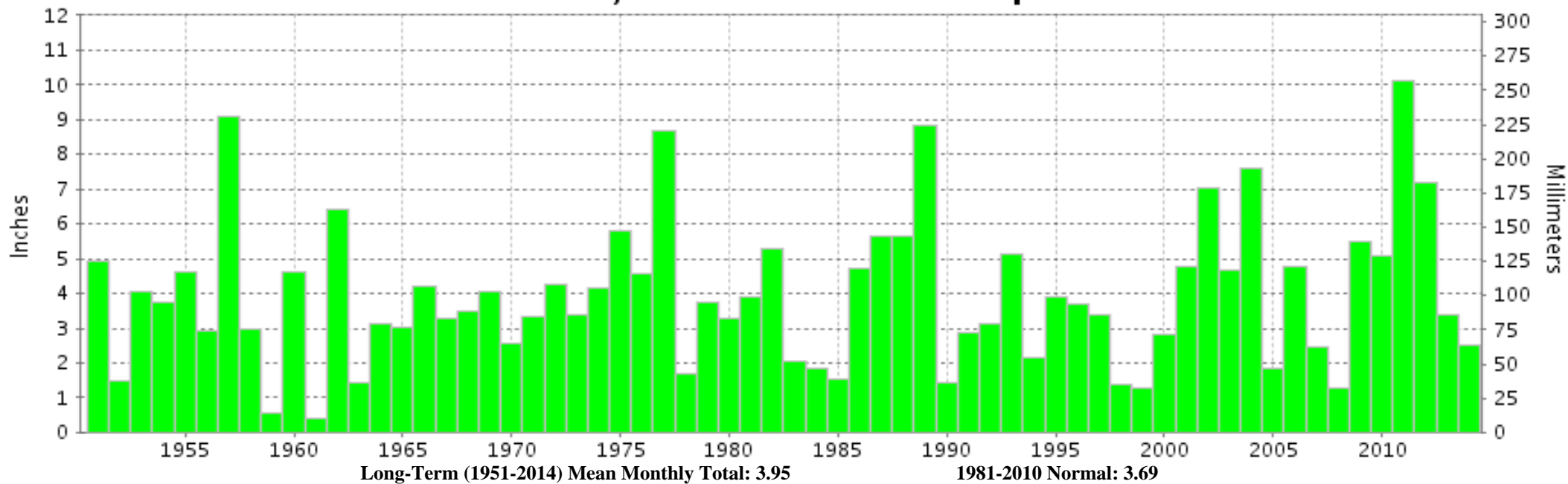
### SUMMARY BY HOUR

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	67	64	65	89	29.14	30.07	9.70	1	3	06
02	66	63	64	91	29.14	30.07	9.00	0	xx	xx
03	66	63	64	91	29.13	30.07	8.95	0	xx	xx
04	66	63	64	91	29.14	30.07	9.03	0	xx	xx
05	66	63	64	91	29.14	30.08	8.83	1	1	36
06	65	63	64	92	29.15	30.09	7.89	1	xx	xx
07	66	63	64	91	29.16	30.11	8.41	1	1	01
08	68	63	65	86	29.17	30.12	8.73	1	3	06
09	70	64	66	79	29.18	30.12	9.75	4	2	08
10	73	63	67	73	29.18	30.12	9.97	3	4	08
11	75	63	68	67	29.17	30.11	10.00	3	1	06
12	78	63	68	62	29.16	30.10	10.00	3	3	29
13	79	63	69	59	29.15	30.08	9.90	3	2	30
14	81	63	69	55	29.13	30.06	10.00	5	0	02
15	81	63	69	55	29.11	30.04	9.83	3	1	03
16	81	63	70	55	29.10	30.03	9.71	4	1	31
17	80	63	69	57	29.10	30.03	9.90	3	2	29
18	78	63	69	62	29.10	30.03	10.00	3	1	30
19	74	65	68	73	29.10	30.04	10.00	1	1	33
20	72	65	68	81	29.12	30.06	9.73	1	2	06
21	70	65	67	84	29.13	30.07	9.97	1	xx	xx
22	69	64	66	86	29.14	30.07	9.42	1	xx	xx
23	68	64	65	87	29.14	30.08	9.51	1	2	06
24	67	63	65	88	29.14	30.07	9.46	1	2	06

## OAK RIDGE, TN SEPTEMBER Temperatures



## OAK RIDGE, TN SEPTEMBER Precipitation





**SEPTEMBER 2014  
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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We welcome your questions or comments, please contact us at:  
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Asheville, NC 28801-5001