



OCTOBER 2013 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	80	55	68	4	59	61	0	3	FG+ FG BR			0.00	29.15	30.11	0.5	19	1.3	14	18	9	21	01		
02	81	59	70	6	63	65	0	5	FG BR			0.00	29.17	30.12			0.0	7	06	5	34	02		
03	83	64	74	10	64	67	0	9	RA FG BR			0.01	29.15	30.09	0.7	23	1.1	13	22	9	19	03		
04	83	61	72	9	63	66	0	7	FG+ FG BR			0.00	29.16	30.12	0.4	17	1.0	11	21	8	21	04		
05	85*	62	74*	11	64	67	0	9	FG+ FG BR			0.00	29.13	30.07	0.6	18	1.6	12	13	8	20	05		
06	83	58	71	9	62	66	0	6	RA BR			0.07	28.97	29.89	2.8	20	4.1	27	25	15	19	06		
07	71	55	63	1	49	55	2	0	RA BR			0.05	29.01	29.99	0.4	09	2.1	11	34	8	34	07		
08	74	49	62	1	48	54	3	0				0.00	29.15	30.13	2.0	06	2.9	22	08	14	06	08		
09	77	52	65	4	53	57	0	0				0.00	29.20	30.16	1.2	08	1.8	13	07	9	08	09		
10	77	51	64	3	53	57	1	0	FG+ FG BR			0.00	29.16	30.12	0.3	06	1.1	11	08	8	06	10		
11	80	51	66	6	53	57	0	1				0.00	29.08	30.05	0.1	32	0.7	13	07	8	08	11		
12	81	52	67	7	55	59	0	2	FG+ BR			0.00	29.10	30.07	0.1	27	0.8	14	29	10	27	12		
13	80	54	67	8	57	61	0	2				0.00	29.22	30.19	1.4	07	1.7	18	33	10	08	13		
14	81	58	70	11	59	63	0	5				0.00	29.22	30.17	0.6	04	1.6	16	08	9	08	14		
15	74	61	68	9	60	63	0	3				0.00	29.14	30.08	0.8	22	1.7	11	21	7	28	15		
16	69	61	65	7	59	61	0	0	RA BR			0.02	29.05	30.01	1.7	25	2.8	12	22	8	26	16		
17	70	50	60	2	58	60	5	0	RA BR			0.44	28.97	29.93	0.7	24	2.4	19	27	13	26	17		
18	66	47	57	-1	47	50	8	0	FG+ FG BR			0.00	29.06	30.03	1.3	07	1.4	11	07	8	07	18		
19	64	42	53	-4	48	51	12	0	RA			T	29.00	29.98	1.1	28	2.1	19	28	12	28	19		
20	65	37	51	-6	39	44	14	0	FG+ FG BR			0.00	29.10	30.10	0.6	07	1.2	11	07	7	08	20		
21	69	40	55	-1	44	48	10	0	FG+ FG BR			0.00	29.10	30.08	0.3	17	1.5	17	19	10	20	21		
22	63	49	56	0	49	52	9	0	RA			T	29.00	29.95	0.7	24	1.7	14	27	9	26	22		
23	52	34	43	-13	37	42	22	0				0.00	29.00	30.00	2.3	25	4.3	24	28	15	26	23		
24	53	35	44	-11	35	40	21	0				0.00	29.19	30.21	1.3	27	3.5	18	33	12	33	24		
25	52	31	42*	-13	27	35	23	0				0.00	29.40	30.42	1.1	07	2.0	16	12	10	08	25		
26	58	29*	44	-11	30	38	21	0	FG+ FZFG BR			0.00	29.26	30.26	1.5	21	2.9	21	22	14	21	26		
27	61	49	55	1	42	48	10	0				0.00	29.15	30.13	0.9	23	1.4	9	26	6	26	27		
28	65	52	59	5	52	55	6	0	RA			T	29.23	30.22	0.5	25	2.0	15	25	9	24	28		
29	71	53	62	9	53	56	3	0	BR			0.00	29.31	30.29	0.3	24	0.6	13	19	9	21	29		
30	79	58	69	16	55	60	0	4				0.00	29.23	30.19	1.3	20	2.1	17	23	10	26	30		
31	72	59	66	13	58	61	0	1	RA BR			0.13	29.02	29.92	3.9	20	4.7	36*	17	24*	17	31		

71.6	50.6	61.1	☼	51.5	55.5	5.5	1.8	< MONTHLY AVERAGES TOTALS >				0.72	29.13	30.10	0.4	21	1.9	< MONTHLY AVERAGES					
0.5	2.6	1.6		<-----DEPARTURE FROM NORMAL----->										-2.20	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 0.46 DATE : 16-17				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM : 30.50 25 0954			
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM : 29.68 31 2053			
HEATING : 170 -29				172 -48				NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0			
COOLING : 57 -27				1472 -8								MINIMUM TEMP <= 32 : 2			
												PRECIPITATION >= 0.01 INCH : 6			
												PRECIPITATION >= 0.10 INCH : 2			
												SNOWFALL >= 1.0 INCH :			

OCTOBER 2013
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 2013

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							0.01						03												03	0.01	0.01	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06									0.07	T	06	0.07	0.07		
07	T	0.03	0.01	0.01	T	T							07											07	0.05	0.05		
08													08											08	0.00	0.00		
09													09											09	0.00	0.00		
10													10											10	0.00	0.00		
11													11											11	0.00	0.00		
12													12											12	0.00	0.00		
13													13											13	0.00	0.00		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16						T	0.01	0.01	T	T	16	0.02	0.02		
17	T	0.04	0.07	0.07	0.02	0.05	0.05	0.05	0.03	0.02	0.01	0.01	17	0.02									17	0.44	0.44			
18													18											18	0.00	0.00		
19						T							19											19	T	T		
20													20											20	0.00	0.00		
21													21											21	0.00	0.00		
22		T	T										22											22	T	T		
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				T	T								28											28	T	T		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31										T	T		31						T	0.02	0.01	T	0.10	31	0.13	0.13		

* 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)	0.03	0.05	0.07	0.09	0.10	0.10	0.10	0.10	0.12	0.14	0.16	0.18
Ending Date	31	31	31	31	31	31	31	31	17	17	17	17
Ending Time (Hr/Min)	2337	2337	2337	2335	2337	2337	2337	2337	0355	0355	0415	0415

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 2013

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

Beginning with the January 2013 LCD, monthly mean temperature calculations have changed to the National Data Stewardship Team standard. Monthly maximum and minimum temperature are not rounded until after monthly mean temperature is calculated. This is the most accurate outcome, but may be slightly different from the mean derived from rounded monthly maximum and minimum.

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	0.25	10.00
02	1.25	10.00
03	1.25	10.00
04	0.00	10.00
05	0.25	10.00
06	4.00	10.00
07	5.00	10.00
08	10.00	10.00
09	10.00	10.00
10	0.25	10.00
11	10.00	10.00
12	0.25	10.00
13	10.00	10.00
14	9.00	10.00
15	9.00	10.00
16	5.00	10.00
17	1.25	10.00
18	0.25	10.00
19	8.00	10.00
20	0.25	10.00
21	0.25	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	0.25	10.00
27	10.00	10.00
28	10.00	10.00
29	2.50	10.00
30	8.00	10.00
31	10.00	10.00
AVGS	5.36	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
9	13	15

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN OCTOBER 2013 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				
SUNRISE: 0632					OCT 01					SUNSET: 1821					SUNRISE: 0637					OCT 07					SUNSET: 1812				
01	CLR	NC	10.00		58	57	57	97	0	00	29.12	30.07	01	OVC	033	10.00			58	54	56	87	0	00	28.95	29.88			
04	VV	002	0.25	FG	56	56	56	100	0	00	29.14	30.09	04	OVC	009	10.00	-RA			56	55	55	97	0	00	28.97	29.91		
07	OVC	060	7.00		56	55	55	97	0	00	29.19	30.14	07	SCT	060	10.00				55	53	54	93	0	00	29.01	29.95		
10	OVC	065	10.00		62	59	60	90	0	00	29.21	30.18	10	CLR	NC	10.00				63	49	55	60	0	00	29.06	29.99		
13	BKN	070	10.00		76	60	66	58			29.16	30.11	13	CLR	NC	10.00				67	46	56	47	3	VR	29.04	29.99		
16	FEW	045	10.00		79	59	67	50	5	19	29.12	30.06	16	FEW	050	10.00				71	46	57	41	7	VR	29.03	29.98		
19	CLR	NC	10.00		70	63	66	79	0	00	29.13	30.09	19	CLR	NC	10.00				60	48	54	65	0	00	29.08	30.04		
22	CLR	NC	10.00		63	62	62	97	0	00	29.17	30.13	22	CLR	NC	10.00				56	47	51	72	0	00	29.13	30.09		
SUNRISE: 0633					OCT 02					SUNSET: 1820					SUNRISE: 0638					OCT 08					SUNSET: 1811				
01	BKN	060	10.00		62	60	61	93	0	00	29.17	30.12	01	CLR	NC	10.00				54	45	49	72	5	07	29.13	30.10		
04	OVC	055	8.00		61	59	60	93	0	00	29.17	30.12	04	CLR	NC	10.00				50	46	48	86	0	00	29.14	30.11		
07	OVC	002	1.25	BR	59	59	59	100	0	00	29.21	30.17	07	CLR	NC	10.00				49	45	47	86	0	00	29.18	30.16		
10	BKN	060	10.00		68	61	64	78	0	00	29.23	30.19	10	CLR	NC	10.00				61	44	52	54	9	06	29.19	30.16		
13	OVC	070	10.00		78	65	70	64	0	00	29.18	30.12	13	CLR	NC	10.00				69	46	56	44	7	05	29.16	30.12		
16	BKN	080	10.00		80	64	70	58	0	00	29.13	30.08	16	CLR	NC	10.00				73	48	59	41	0	00	29.13	30.10		
19	CLR	NC	10.00		73	67	69	81	0	00	29.13	30.08	19	SCT	055	10.00				64	54	58	70	0	00	29.16	30.13		
22	OVC	090	10.00		68	66	67	93	0	00	29.16	30.11	22	BKN	060	10.00				58	54	56	87	0	00	29.19	30.15		
SUNRISE: 0633					OCT 03					SUNSET: 1818					SUNRISE: 0638					OCT 09					SUNSET: 1810				
01	BKN	002	6.00	BR	66	64	65	93	0	00	29.16	30.10	01	SCT	060	10.00				55	53	54	93	0	00	29.19	30.15		
04	OVC	002	1.25	BR	64	64	64	100	0	00	29.14	30.09	04	CLR	NC	10.00				54	51	52	90	0	00	29.20	30.16		
07	OVC	002	2.50	BR	65	64	64	97	0	00	29.17	30.12	07	CLR	NC	10.00				52	50	51	93	0	00	29.23	30.20		
10	CLR	NC	10.00		74	65	68	74	0	00	29.18	30.13	10	CLR	NC	10.00				63	50	56	63	8	10	29.26	30.23		
13	FEW	030	10.00		78	64	69	62	0	00	29.14	30.09	13	CLR	NC	10.00				73	53	61	50	3	VR	29.21	30.17		
16	CLR	NC	10.00		83	61	69	48	6	28	29.10	30.04	16	BKN	055	10.00				74	53	62	48	0	00	29.16	30.12		
19	FEW	050	10.00		74	67	69	79	0	00	29.12	30.06	19	CLR	NC	10.00				67	58	62	73	0	00	29.17	30.13		
22	SCT	050	10.00		68	65	66	90	0	00	29.15	30.10	22	CLR	NC	10.00				59	56	57	90	0	00	29.18	30.15		
SUNRISE: 0634					OCT 04					SUNSET: 1817					SUNRISE: 0639					OCT 10					SUNSET: 1808				
01	CLR	NC	8.00		64	63	63	96	0	00	29.15	30.10	01	CLR	NC	10.00				55	53	54	93	0	00	29.17	30.13		
04	VV	002	0.50	FG	62	61	61	96	0	00	29.15	30.09	04	VV	002	0.50	FG			53	53	53	100	0	00	29.18	30.14		
07	VV	002	0.00	FG	61	61	61	100	0	00	29.19	30.15	07	VV	002	0.25	FG			52	51	51	97	0	00	29.20	30.16		
10	SCT	060	10.00		68	64	65	87	0	00	29.23	30.18	10	CLR	NC	10.00				61	53	57	75	3	VR	29.21	30.18		
13	BKN	065	10.00		80	63	69	56	7	18	29.18	30.12	13	BKN	042	10.00				73	54	62	51	0	00	29.16	30.12		
16	CLR	NC	10.00		82	61	69	49	0	00	29.14	30.09	16	CLR	NC	10.00				76	51	61	42	3	VR	29.12	30.07		
19	CLR	NC	10.00		74	66	69	76	0	00	29.14	30.10	19	CLR	NC	10.00				65	55	59	70	0	00	29.12	30.08		
22	CLR	NC	10.00		68	65	66	90	0	00	29.17	30.12	22	CLR	NC	10.00				57	54	55	90	0	00	29.10	30.07		
SUNRISE: 0635					OCT 05					SUNSET: 1815					SUNRISE: 0640					OCT 11					SUNSET: 1807				
01	CLR	NC	6.00	BR	64	63	63	96	0	00	29.16	30.11	01	CLR	NC	10.00				54	52	53	93	0	00	29.10	30.05		
04	VV	002	0.25	FG	63	63	63	100	0	00	29.17	30.11	04	CLR	NC	10.00				52	50	51	93	0	00	29.10	30.05		
07	VV	002	0.25	FG	62	62	62	100	0	00	29.20	30.15	07	SCT	003	10.00				51	50	50	96	0	00	29.12	30.09		
10	CLR	NC	10.00		71	65	67	81	0	00	29.19	30.13	10	CLR	NC	10.00				64	53	58	68	0	00	29.14	30.11		
13	CLR	NC	10.00		82	65	71	56	8	12	29.13	30.07	13	CLR	NC	10.00				76	54	63	47	3	VR	29.09	30.04		
16	CLR	NC	10.00		85	62	70	46	3	VR	29.07	30.00	16	BKN	060	10.00				77	54	63	45	0	00	29.05	30.00		
19	CLR	NC	10.00		76	68	71	77	0	00	29.08	30.01	19	CLR	NC	10.00				66	58	61	75	0	00	29.07	30.03		
22	CLR	NC	10.00		69	66	67	90	0	00	29.08	30.01	22	CLR	NC	10.00				59	56	57	90	0	00	29.08	30.03		
SUNRISE: 0636					OCT 06					SUNSET: 1814					SUNRISE: 0641					OCT 12					SUNSET: 1806				
01	CLR	NC	9.00		66	64	65	93	0	00	29.05	29.98	01	CLR	NC	10.00				57	55	56	93	0	00	29.08	30.02		
04	CLR	NC	9.00		64	62	63	93	0	00	29.02	29.95	04	CLR	NC	10.00				55	53	54	93	0	00	29.10	30.04		
07	FEW	050	8.00		64	62	63	93	0	00	29.04	29.98	07	VV	002	0.25	FG			52	51	51	97	0	00	29.13	30.09		
10	BKN	060	10.00		75	64	68	69	5	VR	29.03	29.96	10	CLR	NC	10.00				67	57	61	71	0	00	29.13	30.09		
13	BKN	075	10.00		82	63	70	53	7	20	28.96	29.88	13	CLR	NC	10.00				77	54	63	45	3	VR	29.12	30.06		
16	CLR	NC	10.00		81	61	68	51	7	VR	28.87	29.80	16	BKN	060	10.00				81	54	65	39	5	VR	29.10	30.05		
19	FEW	085	10.00		76	62	67	62	5	23	28.87	29.81	19	CLR	NC	10.00				67	59	62	76	0	00	29.12	30.08		
22	OVC	090	10.00		74	63	67	69	8	20	28.90	29.83	22	CLR	NC	10.00				60	57	58	90	0	00	29.16	30.12		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
OCTOBER 2013

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				
SUNRISE: 0642					OCT 13					SUNSET: 1804					SUNRISE: 0647					OCT 19					SUNSET: 1756				
01	CLR	NC	10.00		57	55	56	93	0	00	29.18	30.13	01	CLR	NC	9.00		51	48	49	89	0	00	29.03	30.00				
04	CLR	NC	10.00		54	53	53	97	0	00	29.20	30.15	04	CLR	NC	9.00		50	48	49	93	0	00	29.00	29.96				
07	CLR	NC	10.00		55	53	54	93	0	00	29.23	30.20	07	OVC	120	10.00		51	49	50	92	0	00	28.99	29.96				
10	CLR	NC	10.00		69	58	62	68	3	VR	29.26	30.22	10	FEW	110	10.00		56	49	52	77	3	VR	28.98	29.95				
13	BKN	070	10.00		77	58	65	52	6	08	29.24	30.19	13	OVC	110	10.00		62	50	55	65	6	VR	28.98	29.94				
16	FEW	085	10.00		79	57	65	47	0	00	29.21	30.16	16	OVC	070	10.00		62	49	55	62	8	VR	28.98	29.95				
19	OVC	090	10.00		71	61	65	71	0	00	29.23	30.19	19	CLR	NC	10.00		55	47	51	74	3	27	29.04	30.01				
22	OVC	070	10.00		66	61	63	84	0	00	29.26	30.22	22	CLR	NC	10.00		46	44	45	93	0	00	29.09	30.06				
SUNRISE: 0643					OCT 14					SUNSET: 1803					SUNRISE: 0648					OCT 20					SUNSET: 1755				
01	CLR	NC	10.00		62	59	60	90	0	00	29.24	30.19	01	CLR	NC	10.00		42	40	41	92	0	00	29.10	30.08				
04	CLR	NC	10.00		60	57	58	90	0	00	29.25	30.19	04	CLR	NC	10.00		40	37	39	89	0	00	29.10	30.09				
07	SCT	036	10.00		60	57	58	90	0	00	29.27	30.22	07	VV	002	0.25	FG	39	39	39	100	0	00	29.13	30.12				
10	CLR	NC	10.00		72	61	65	68	5	VR	29.27	30.22	10	CLR	NC	10.00		50	41	46	71	8	07	29.16	30.15				
13	BKN	034	10.00		78	60	67	54	0	00	29.21	30.15	13	CLR	NC	10.00		59	39	49	48	5	12	29.12	30.10				
16	OVC	070	10.00		80	60	67	51	6	VR	29.15	30.10	16	CLR	NC	10.00		63	35	49	35	0	00	29.08	30.05				
19	BKN	080	10.00		71	61	65	71	3	06	29.18	30.14	19	CLR	NC	10.00		51	43	47	74	0	00	29.10	30.09				
22	CLR	NC	10.00		66	61	63	84	0	00	29.18	30.13	22	CLR	NC	10.00		44	41	43	89	0	00	29.12	30.11				
SUNRISE: 0644					OCT 15					SUNSET: 1802					SUNRISE: 0649					OCT 21					SUNSET: 1754				
01	OVC	050	10.00		65	61	63	87	3	25	29.19	30.13	01	CLR	NC	10.00		41	39	40	93	0	00	29.12	30.09				
04	OVC	029	10.00		63	61	62	93	0	00	29.18	30.12	04	VV	002	0.25	FG	41	40	41	96	0	00	29.13	30.11				
07	OVC	036	9.00		62	60	61	93	0	00	29.18	30.13	07	VV	002	0.25	FG	41	40	41	96	0	00	29.15	30.15				
10	OVC	026	10.00		69	60	64	73	5	VR	29.17	30.13	10	CLR	NC	10.00		49	46	48	90	0	00	29.17	30.16				
13	BKN	041	10.00		72	58	64	61	3	VR	29.13	30.07	13	CLR	NC	10.00		66	44	54	45	6	VR	29.10	30.07				
16	BKN	050	10.00		72	58	64	61	0	00	29.09	30.03	16	CLR	NC	10.00		67	42	54	41	5	VR	29.05	30.02				
19	CLR	NC	10.00		67	61	63	81	3	21	29.10	30.04	19	CLR	NC	10.00		57	49	53	74	0	00	29.05	30.03				
22	SCT	120	10.00		65	60	62	84	0	00	29.10	30.05	22	CLR	NC	10.00		52	48	50	86	0	00	29.05	30.03				
SUNRISE: 0644					OCT 16					SUNSET: 1800					SUNRISE: 0650					OCT 22					SUNSET: 1753				
01	BKN	110	10.00		63	58	60	84	6	26	29.08	30.03	01	SCT	120	10.00		51	47	49	86	0	00	29.06	30.02				
04	CLR	NC	10.00		62	57	59	84	3	VR	29.07	30.01	04	BKN	110	10.00		53	49	51	86	0	00	29.03	29.99				
07	OVC	034	10.00	-RA	62	57	59	84	5	21	29.09	30.04	07	OVC	120	10.00		52	49	50	89	0	00	29.04	30.01				
10	OVC	033	10.00		64	57	60	78	6	26	29.10	30.05	10	BKN	100	10.00		59	50	54	72	0	00	29.05	30.01				
13	OVC	025	10.00		67	57	61	71	5	VR	29.06	30.01	13	OVC	080	10.00		63	48	55	58	5	30	28.98	29.94				
16	OVC	024	10.00		68	59	63	73	3	VR	29.03	29.98	16	OVC	085	10.00		61	48	54	63	5	VR	28.93	29.89				
19	OVC	095	10.00		66	60	62	81	0	00	29.02	29.97	19	BKN	048	10.00		58	49	53	72	0	00	28.92	29.89				
22	OVC	050	6.00	-RA BR	64	62	63	93	0	00	29.03	29.98	22	CLR	NC	10.00		52	47	49	83	5	22	28.92	29.89				
SUNRISE: 0645					OCT 17					SUNSET: 1759					SUNRISE: 0651					OCT 23					SUNSET: 1752				
01	OVC	017	2.50	-RA BR	63	62	62	97	0	00	29.00	29.94	01	SCT	080	10.00		51	46	48	83	7	20	28.90	29.86				
04	OVC	008	2.50	-RA BR	63	62	62	97	0	00	28.95	29.90	04	BKN	110	10.00		49	46	47	90	5	23	28.86	29.82				
07	OVC	006	2.00	-RA BR	63	62	62	97	0	00	28.94	29.88	07	CLR	NC	10.00		49	41	45	74	6	26	28.90	29.87				
10	OVC	008	5.00	-RA BR	65	63	64	93	3	VR	28.95	29.89	10	OVC	036	10.00		49	35	43	59	14	26	29.00	29.97				
13	OVC	070	10.00		67	63	65	87	8	25	28.93	29.88	13	OVC	038	10.00		46	34	41	63	8	25	29.07	30.05				
16	FEW	027	10.00		66	55	60	68	5	VR	28.96	29.90	16	BKN	045	10.00		49	31	41	50	5	VR	29.09	30.07				
19	OVC	026	10.00		60	51	55	72	0	00	29.03	29.98	19	CLR	NC	10.00		41	33	38	73	0	00	29.13	30.12				
22	FEW	041	10.00		54	49	51	83	0	00	29.07	30.02	22	CLR	NC	10.00		36	33	35	89	0	00	29.14	30.14				
SUNRISE: 0646					OCT 18					SUNSET: 1758					SUNRISE: 0652					OCT 24					SUNSET: 1750				
01	CLR	NC	10.00		49	47	48	93	0	00	29.06	30.03	01	OVC	120	10.00		37	34	36	89	0	00	29.16	30.16				
04	VV	002	0.25	FG	47	47	47	100	0	00	29.07	30.03	04	OVC	110	10.00		38	35	37	89	0	00	29.17	30.17				
07	OVC	002	2.00	BR	48	47	47	96	3	VR	29.10	30.07	07	OVC	060	10.00		40	35	38	83	3	25	29.19	30.20				
10	CLR	NC	10.00		56	49	52	77	7	06	29.13	30.10	10	SCT	080	10.00		47	35	42	63	9	26	29.22	30.22				
13	CLR	NC	10.00		61	43	52	52	0	00	29.08	30.04	13	OVC	060	10.00		51	37	45	59	3	VR	29.20	30.20				
16	CLR	NC	10.00		65	45	54	49	0	00	29.03	29.99	16	OVC	048	10.00		52	36	45	55	3	VR	29.18	30.18				
19	CLR	NC	10.00		55	50	52	83	0	00	29.03	30.00	19	OVC	075	10.00		49	35	43	59	3	VR	29.23	30.23				
22	CLR	NC	10.00		51	48	49	89	0	00	29.05	30.02	22	OVC	055	10.00		44	33	39	65	9	34	29.30	30.29				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2013

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: 0653					OCT 25								SUNSET: 1749				
01	CLR	NC	10.00		37	22	32	54	5	36	29.35	30.35					
04	OVC	044	10.00		37	26	33	65	0	00	29.38	30.38					
07	CLR	NC	10.00		31	27	30	85	0	00	29.45	30.46					
10	CLR	NC	10.00		42	28	36	58	7	09	29.49	30.50					
13	FEW	050	10.00		48	25	39	41	6	VR	29.45	30.45					
16	CLR	NC	10.00		52	24	41	34	0	00	29.40	30.40					
19	CLR	NC	10.00		40	31	36	70	0	00	29.39	30.42					
22	CLR	NC	10.00		35	30	33	82	0	00	29.40	30.41					
SUNRISE: 0654					OCT 26								SUNSET: 1748				
01	CLR	NC	10.00		31	28	30	89	0	00	29.37	30.38					
04	VV	002	0.25	FZFG	30	29	30	96	0	00	29.34	30.35					
07	VV	002	0.25	FZFG	30	29	30	96	0	00	29.34	30.36					
10	CLR	NC	10.00		41	33	38	73	0	00	29.34	30.35					
13	CLR	NC	10.00		54	28	43	37	6	VR	29.23	30.23					
16	BKN	050	10.00		56	28	44	34	7	22	29.16	30.16					
19	OVC	060	10.00		54	31	44	42	3	VR	29.15	30.15					
22	OVC	040	10.00		53	33	44	47	0	00	29.18	30.18					
SUNRISE: 0654					OCT 27								SUNSET: 1747				
01	OVC	043	10.00		52	34	44	50	6	20	29.16	30.14					
04	OVC	060	10.00		50	37	44	61	0	00	29.13	30.11					
07	OVC	060	10.00		49	39	44	69	0	00	29.16	30.14					
10	OVC	055	10.00		53	39	46	59	0	00	29.18	30.16					
13	OVC	046	10.00		58	43	50	58	5	VR	29.16	30.14					
16	OVC	065	10.00		60	44	52	56	0	00	29.13	30.11					
19	OVC	032	10.00		58	47	52	67	0	00	29.14	30.12					
22	BKN	055	10.00		55	48	51	77	0	00	29.18	30.16					
SUNRISE: 0655					OCT 28								SUNSET: 1746				
01	OVC	070	10.00		53	49	51	86	0	00	29.16	30.14					
04	OVC	045	10.00	-RA	53	50	51	89	0	00	29.19	30.16					
07	BKN	095	10.00		53	50	51	89	0	00	29.23	30.20					
10	BKN	060	10.00		61	52	56	72	5	VR	29.27	30.24					
13	OVC	047	10.00		63	53	57	70	7	VR	29.26	30.23					
16	OVC	028	10.00		63	52	57	68	3	VR	29.24	30.22					
19	OVC	029	10.00		60	54	57	80	0	00	29.29	30.26					
22	OVC	033	10.00		58	54	56	87	0	00	29.31	30.28					
SUNRISE: 0656					OCT 29								SUNSET: 1745				
01	OVC	034	10.00		58	54	56	87	0	00	29.32	30.28					
04	OVC	060	9.00		55	53	54	93	0	00	29.32	30.29					
07	OVC	004	5.00	BR	53	52	52	96	0	00	29.36	30.34					
10	OVC	004	4.00	BR	57	54	55	90	0	00	29.38	30.36					
13	FEW	065	10.00		67	54	60	63	5	26	29.33	30.29					
16	OVC	060	10.00		70	50	59	49	0	00	29.28	30.24					
19	CLR	NC	10.00		63	55	58	76	0	00	29.27	30.24					
22	BKN	110	10.00		59	55	57	87	0	00	29.29	30.26					
SUNRISE: 0657					OCT 30								SUNSET: 1744				
01	OVC	110	10.00		59	55	57	87	0	00	29.27	30.23					
04	BKN	085	10.00		59	55	57	87	0	00	29.26	30.22					
07	FEW	100	10.00		60	56	58	86	0	00	29.28	30.24					
10	CLR	NC	10.00		66	56	60	70	3	VR	29.31	30.27					
13	BKN	090	10.00		78	56	65	47	3	VR	29.22	30.17					
16	CLR	NC	10.00		77	54	63	45	8	19	29.17	30.13					
19	CLR	NC	10.00		68	55	60	63	0	00	29.18	30.14					
22	CLR	NC	10.00		62	56	59	80	0	00	29.19	30.15					

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: 0658					OCT 31								SUNSET: 1743				
01	CLR	NC	10.00		60	56	58	86	0	00	29.17	30.12					
04	CLR	NC	10.00		60	56	58	86	0	00	29.12	30.06					
07	CLR	NC	10.00		60	56	58	86	0	00	29.12	30.06					
10	BKN	110	10.00	-RA	64	56	59	75	3	VR	29.06	30.01					
13	OVC	038	10.00		66	57	61	73	5	28	28.98	29.93					
16	OVC	055	10.00		72	58	63	61	8	19	28.87	29.82					
19	OVC	065	10.00	-RA	72	59	64	64	8	21	28.84	29.78					
22	OVC	036	10.00		69	61	64	76	11	20	28.77	29.70					

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

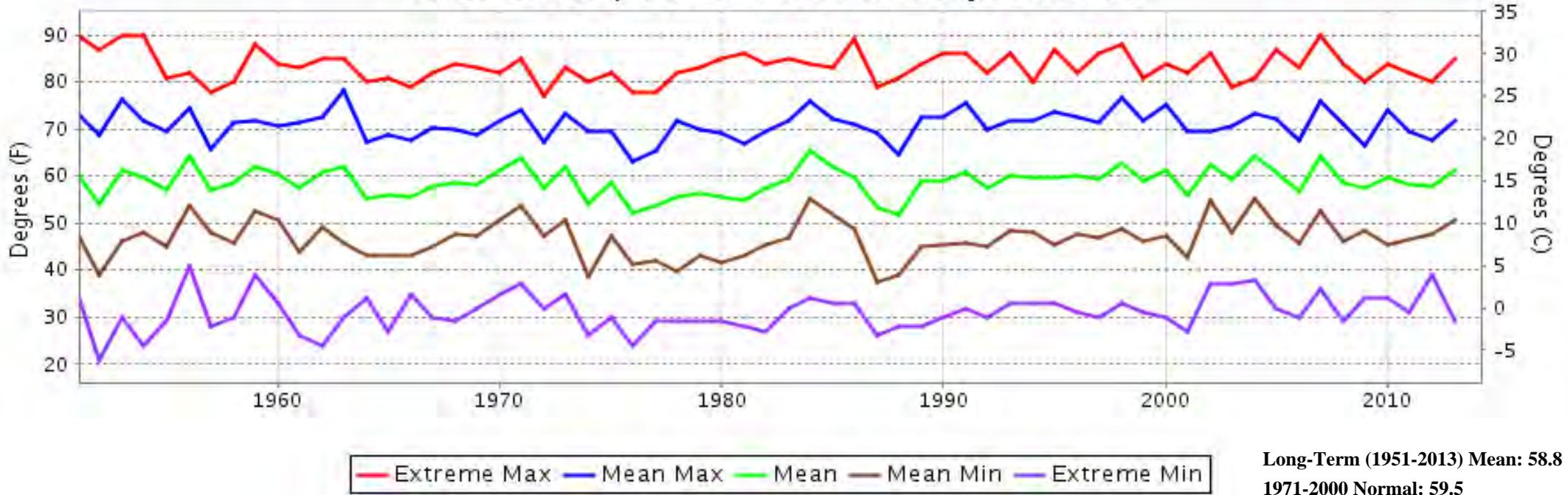
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

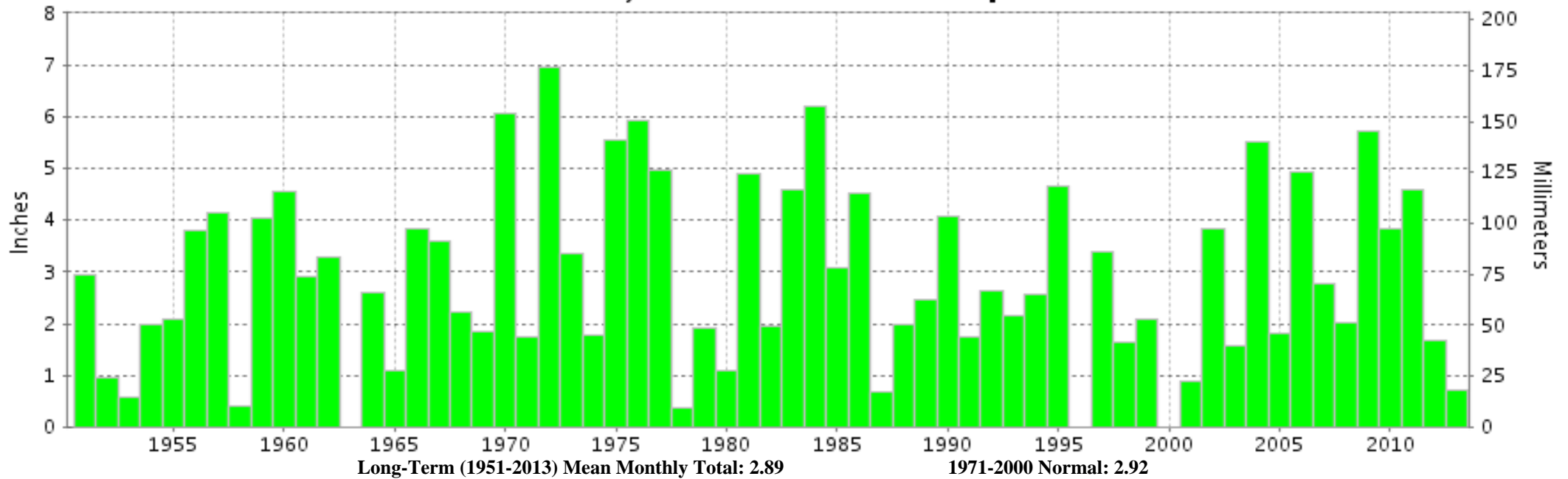
SUMMARY BY HOUR

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	88	29.14	30.10	9.37	1	2	23
02	54	51	52	89	29.14	30.10	8.27	1	1	20
03	53	50	52	90	29.13	30.09	7.64	1	2	19
04	53	51	52	91	29.14	30.10	7.13	0	xx	xx
05	53	51	52	91	29.15	30.11	7.06	1	xx	xx
06	53	51	52	92	29.15	30.12	7.13	0	xx	xx
07	53	50	51	92	29.16	30.13	6.40	1	xx	xx
08	54	51	52	90	29.17	30.14	7.14	1	xx	xx
09	57	52	54	83	29.18	30.15	8.05	1	3	12
10	61	52	56	73	29.18	30.14	9.65	3	1	14
11	64	52	57	65	29.17	30.14	9.87	3	1	17
12	67	52	58	59	29.16	30.12	9.94	5	1	21
13	68	51	59	56	29.14	30.10	10.00	4	1	23
14	69	51	59	53	29.11	30.07	10.00	5	2	12
15	70	51	59	51	29.11	30.06	10.00	4	2	25
16	70	50	59	50	29.10	30.06	10.00	3	3	25
17	69	51	59	53	29.10	30.06	10.00	4	1	25
18	66	52	58	60	29.11	30.06	10.00	2	2	25
19	63	53	58	72	29.11	30.08	10.00	1	2	23
20	61	53	57	78	29.12	30.09	10.00	1	xx	xx
21	59	53	56	81	29.12	30.09	10.00	1	2	24
22	58	53	55	84	29.13	30.10	9.87	1	3	24
23	56	52	54	86	29.13	30.10	9.58	1	xx	xx
24	55	52	54	87	29.13	30.09	9.65	1	xx	xx

OAK RIDGE, TN OCTOBER Temperatures



OAK RIDGE, TN OCTOBER Precipitation





**OCTOBER 2013
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