



# FEBRUARY 2015 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			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23			
01	50	37	44	6	33	39	21	0	RA BR			0.68	29.08	30.01	1.0	22	1.7	19	29	13	28	01		
02	52	27	40	2	26	32	25	0	RA SN BR			0.01	28.97	30.04	5.0	28	6.6	29	26	18	28	02		
03	45	20	33	-5	19	27	32	0				0.00	29.34	30.37	0.6	22	1.2	11	19	8	20	03		
04	51	24	38	0	23	32	27	0				0.00	29.22	30.22	1.6	24	2.2	16	25	10	25	04		
05	45	25	35	-3	14	28	30	0				0.00	29.24	30.29	4.0	03	6.4	25	31	16	06	05		
06	48	16	32	-7	12	25	33	0				0.00	29.37	30.40	0.8	20	1.3	12	19	9	19	06		
07	63*	27	45	6	19	35	20	0				0.00	29.20	30.18	3.5	23	4.7	23	21	15	20	07		
08	62	39	51*	12	36	45	14	0				0.00	29.01	29.97	3.5	23	5.5	17	22	10	20	08		
09	60	39	50	11	46	49	15	0	RA BR			0.02	28.87	29.85	1.6	34	3.5	18	33	13	36	09		
10	45	30	38	-1	28	33	27	0				0.00	29.07	30.08	3.1	03	5.5	19	07	13	07	10		
11	57	26	42	2	27	35	23	0	BR			0.00	29.08	30.09	0.3	28	1.8	10	26	7	22	11		
12	42	24	33	-7	18	28	32	0	SN			0.01	29.16	30.21	4.4	30	6.5	25	01	15	32	12		
13	38	20	29	-11	8	22	36	0				0.00	29.30	30.33	0.3	21	1.9	14	02	9	19	13		
14	48	22	35	-5	15	29	30	0				0.00	29.07	30.09	6.0	27	8.4	36*	29	21*	27	14		
15	30	11	21	-20	0	16	44	0				0.00	29.38	30.43	3.6	03	6.0	21	07	15	33	15		
16	32	24	28	-13	18	25	37	0	RA FZRA SN BR UP			1.05	29.06	30.04	2.3	06	3.9	17	05	12	07	16		
17	30	16	23	-18	18	21	42	0	SN BR			0.01	29.01	30.07	0.2	28	2.4	15	01	8	35	17		
18	28	14	21	-20	12	18	44	0	SN FG+ FZFG BR UP HZ			0.04	29.04	30.11	4.7	27	6.4	32	24	20	27	18		
19	18	4	11*	-31	0	8	54	0				0.00	29.34	30.43	4.1	25	5.4	19	27	14	27	19		
20	26	4*	15	-27	6	14	50	0	SN UP			0.08	29.40	30.47	1.0	14	1.8	9	18	7	18	20		
21	41	24	33	-9	31	32	32	0	RA FZRA SN BR UP			1.78	29.15	30.16	2.6	24	3.7	17	26	12	26	21		
22	46	36	41	-1	35	38	24	0	RA FG+ FG			0	29.20	30.24	1.1	06	2.5	11	07	8	06	22		
23	37	28	33	-10	21	29	32	0				0.00	29.38	30.40	2.8	04	6.1	21	08	13	05	23		
24	35	23	29	-14	21	26	36	0	SN BR			0.15	29.14	30.15	1.2	21	2.8	12	19	9	20	24		
25	38	18	28	-15	20	26	37	0	SN FZFG BR			0.21	28.95	29.97	1.6	08	2.5	14	26	9	09	25		
26	42	30	36	-7	29	32	29	0	SN BR			0.11	28.95	30.01	0.4	29	1.2	12	36	8	35	26		
27	37	25	31	-13	15	26	34	0				0.00	29.45	30.48	2.7	05	4.7	15	10	10	10	27		
28	50	25	38	-6	19	30	27	0				0.00	29.57	30.59	0.7	04	3.1	15	06	10	06	28		
42.7				23.5	33.1	☼	20.3	28.6	31.7	0.0	< MONTHLY AVERAGES   TOTALS >		4.15	29.18	30.20	0.8	29	3.9	< MONTHLY AVERAGES					
-9.2			-8.2	-8.7	-----DEPARTURE FROM NORMAL ----->						-0.42	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 1.83 DATE : 20-21					SEA LEVEL PRESSURE										
MONTHLY									GREATEST 24-HR SNOWFALL :					MAXIMUM : 30.68 28 1053										
TOTAL DEPARTURE									GREATEST SNOW DEPTH :					MINIMUM : 29.65 02 0053										
SEASON TO DATE									NUMBER OF -> DAYS WITH					PRECIPITATION >= 0.01 INCH: 12										
HEATING : 887 237 3164 202									MAXIMUM TEMP >= 90 : 0					MINIMUM TEMP <= 32 : 24										
COOLING : 0 0 0 0									MAXIMUM TEMP <= 32 : 6					MINIMUM TEMP <= 0 : 0										
									THUNDERSTORMS : 0					HEAVY FOG : 2										
														PRECIPITATION >= 0.10 INCH: 6										
														SNOWFALL >= 1.0 INCH :										

FEBRUARY 2015  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
FEBRUARY 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	T	0.03	0.03	0.04	0.01	0.02	0.02	0.07	0.03	0.35	0.08	T	01	0.68	0.68
02	T	T			T							T	02												T	02	0.01	0.01
03												T	03													03	0.00	0.00
04													04													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	0.02	T								T	09		T	T										09	0.02	0.02
10												T	10													10	0.00	0.00
11													11													11	0.00	0.00
12												T	12	0.01	T											12	0.01	0.01
13													13													13	0.00	0.00
14													14													14	0.00	0.00
15													15													15	0.00	0.00
16						T	T	T	T	T	T	0.04	16	0.08	0.13	0.15	0.14	0.13	0.10	0.07	0.10	0.04	0.03	0.03	0.01	16	1.05	1.05
17	0.01	T											17			T	T									17	0.01	0.01
18							T	0.01	0.01	T	T	0.02	18	T	T		T	T							18	0.04	0.04	
19													19								T					19	0.00	0.00
20													20									T	0.05	0.03	0.03	20	0.08	0.08
21	0.09	0.09	0.04	0.07	0.08	0.08	0.06	0.04	0.05	0.06	0.02	0.01	21	0.03	0.03	0.12	0.12	0.10	0.17	0.16	0.16	0.16	0.01	0.03	T	21	1.78	1.78
22	T	T											22													22	T	T
23													23													23	0.00	0.00
24			T	0.03	0.03	0.05	0.01	0.02		T	0.01		24													24	0.15	0.15
25													25								T	0.01	0.08	0.06	0.06	25	0.21	0.21
26	0.06	0.04	0.01	T									26													26	0.11	0.11
27													27													27	0.00	0.00
28													28													28	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)	0.09	0.15	0.20	0.24	0.31	0.37	0.41	0.42	0.43	0.43	0.50	0.52
Ending Date	01	01	01	01	01	01	01	01	01	01	01	01
Ending Time (Hr/Min)	2132	2132	2136	2139	2149	2203	2214	2234	2257	2257	2211	2234

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 FEBRUARY 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	2.00	10.00
02	2.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	10.00	10.00
07	7.00	10.00
08	10.00	10.00
09	4.00	10.00
10	10.00	10.00
11	5.00	10.00
12	6.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	1.75	10.00
17	0.75	10.00
18	0.75	10.00
19	10.00	10.00
20	10.00	10.00
21	3.00	6.00
22	10.00	10.00
23	7.00	10.00
24	0.75	10.00
25	0.50	10.00
26	0.75	10.00
27	10.00	10.00
28	10.00	10.00
<b>AVGS</b>	6.47	9.86
<b>MINIMUM VISIBILITY (MILES)</b>		
<= .25	<= 3.0	>= 7.0
0	9	16





# OBSERVATIONS AT 3-HOURLY INTERVALS

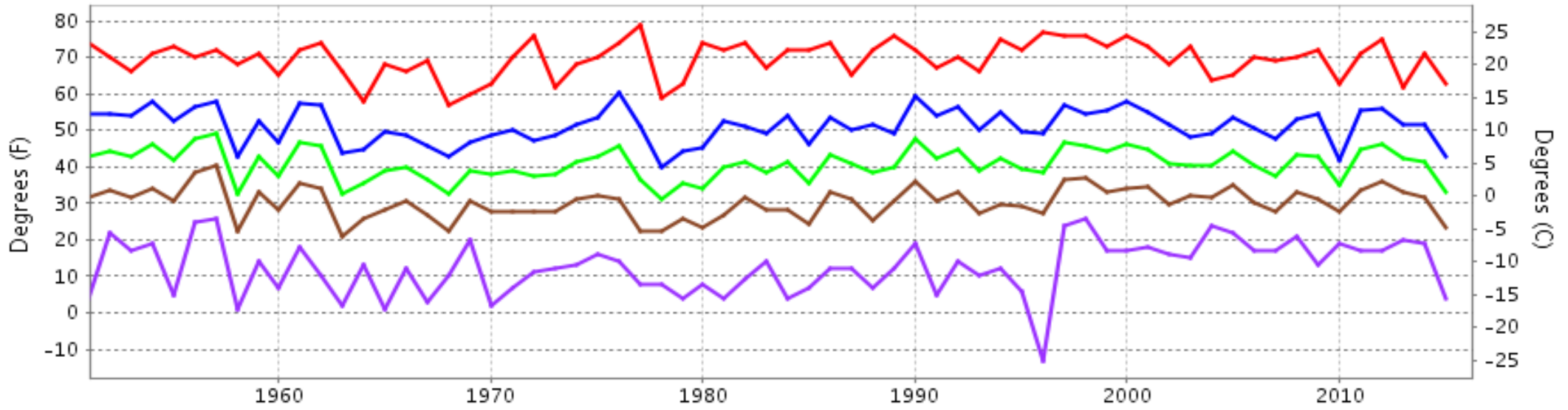
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<b>SUNRISE: 0713</b>					<b>FEB 25</b>			<b>SUNSET: 1828</b>				
01	CLR	NC	10.00		30	14	25	51	6	VR	29.02	30.04
04	CLR	NC	10.00		21	16	20	81	0	00	29.03	30.06
07	CLR	NC	10.00		18	15	17	88	0	00	29.03	30.06
10	CLR	NC	10.00		28	19	25	69	5	05	29.04	30.06
13	CLR	NC	10.00		36	19	30	50	5	VR	28.97	29.98
16	BKN	110	10.00		36	20	30	52	6	10	28.89	29.91
19	OVC	090	10.00		34	21	29	59	0	00	28.82	29.85
22	VV	009	0.50	SN FZFG	30	28	29	92	3	07	28.82	29.84
<b>SUNRISE: 0711</b>					<b>FEB 26</b>			<b>SUNSET: 1829</b>				
01			0.75	-SN BR	31	29	30	92	0	00	28.83	29.84
04			8.00		31	29	30	92	0	00	28.81	29.82
07	OVC	050	8.00		31	29	30	92	0	00	28.87	29.88
10	OVC	060	10.00		34	31	33	89	0	00	28.97	29.98
13	OVC	048	10.00		40	30	36	68	7	34	29.01	30.01
16	OVC	050	10.00		41	27	35	57	0	00	29.04	30.05
19	FEW	049	10.00		37	30	34	76	0	00	29.13	30.14
22	OVC	065	9.00		33	30	32	89	0	00	29.21	30.23
<b>SUNRISE: 0710</b>					<b>FEB 27</b>			<b>SUNSET: 1830</b>				
01	OVC	060	10.00		34	21	29	59	0	00	29.25	30.27
04	BKN	050	10.00		30	22	27	72	7	34	29.31	30.33
07	FEW	030	10.00		25	16	22	69	3	01	29.40	30.43
10	FEW	028	10.00		28	15	24	58	5	VR	29.49	30.53
13	CLR	NC			34	16	28	48	6	VR	29.49	30.53
16	CLR	NC	10.00		35	15	28	44	8	09	29.49	30.52
19	CLR	NC	10.00		31	10	25	42	3	VR	29.52	30.56
22	CLR	NC	10.00		28	9	23	44	5	VR	29.56	30.60
<b>SUNRISE: 0709</b>					<b>FEB 28</b>			<b>SUNSET: 1831</b>				
01	BKN	120	10.00		27	10	22	49	3	05	29.56	30.60
04	OVC	100	10.00		27	11	22	51	3	VR	29.57	30.61
07	BKN	090	10.00		26	12	22	55	5	04	29.60	30.65
10	FEW	075	10.00		32	15	27	50	3	VR	29.64	30.68
13	CLR	NC	10.00		41	20	33	43	0	00	29.60	30.63
16	CLR	NC	10.00		48	23	38	37	0	00	29.52	30.55
19	OVC	120	10.00		45	23	36	42	3	04	29.50	30.53
22	BKN	110	10.00		39	27	34	62	0	00	29.49	30.53

**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	31	20	27	66	29.17	30.19	9.41	3	2	29
02	30	20	27	67	29.17	30.19	9.67	3	1	32
03	29	20	26	69	29.17	30.19	9.34	3	1	32
04	29	20	26	71	29.17	30.19	9.47	2	1	32
05	28	20	25	73	29.18	30.19	9.31	4	2	28
06	27	20	25	75	29.18	30.21	9.18	3	1	01
07	27	19	24	74	29.19	30.22	9.27	3	3	29
08	27	19	24	74	29.21	30.23	8.54	3	1	02
09	29	20	26	71	29.22	30.24	8.97	3	2	29
10	31	20	28	65	29.22	30.25	9.24	5	2	29
11	33	20	29	61	29.22	30.25	9.21	5	1	29
12	35	21	30	58	29.22	30.24	9.44	5	1	29
13	37	21	31	56	29.19	30.21	9.13	6	3	28
14	38	21	32	53	29.17	30.18	9.32	5	4	28
15	39	21	33	52	29.15	30.17	8.94	6	2	28
16	39	21	33	51	29.15	30.17	9.42	6	1	29
17	39	21	33	52	29.15	30.17	9.57	6	2	29
18	38	21	32	54	29.16	30.18	9.50	5	2	28
19	36	21	31	58	29.17	30.19	9.58	4	3	28
20	35	21	30	60	29.18	30.20	9.38	3	2	29
21	33	21	29	63	29.18	30.21	9.34	3	2	29
22	32	21	29	65	29.18	30.21	9.02	4	0	36
23	32	21	28	67	29.19	30.21	9.10	3	1	30
24	31	21	28	67	29.17	30.19	9.31	2	2	30

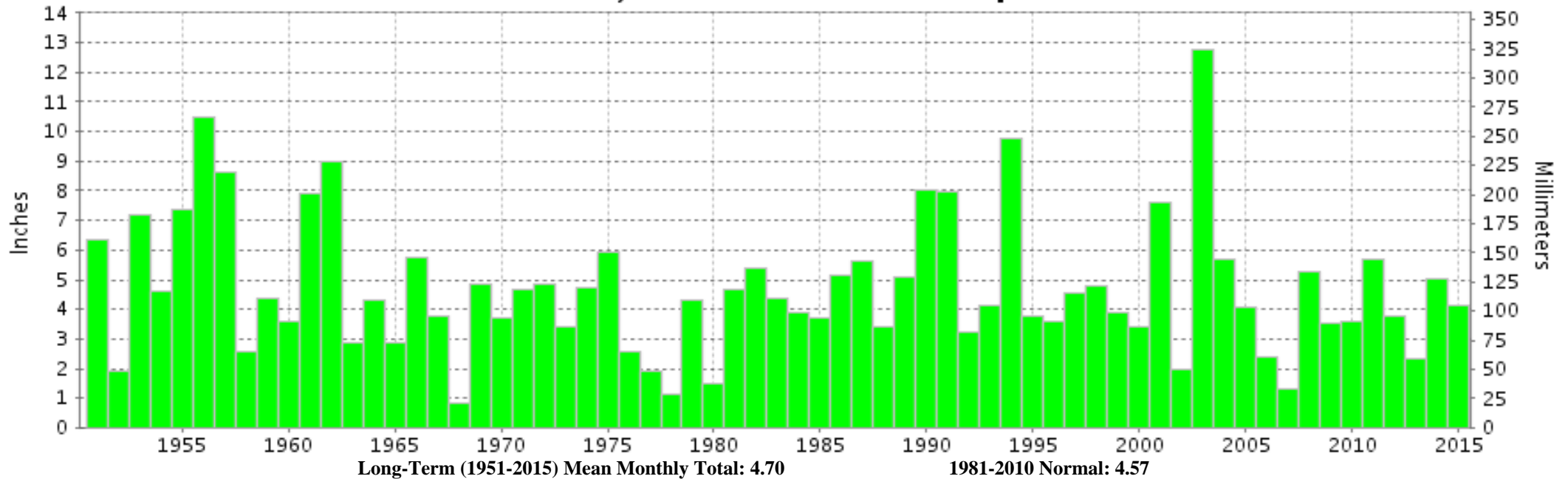
## OAK RIDGE, TN FEBRUARY Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

**Long-Term (1951-2015) Mean: 40.7**  
**1981-2010 Normal: 41.8**

## OAK RIDGE, TN FEBRUARY Precipitation



Long-Term (1951-2015) Mean Monthly Total: 4.70      1981-2010 Normal: 4.57



**FEBRUARY 2015**  
**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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