



OCTOBER 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			
																			SPEED 20	DIR 21	SPEED 22	DIR 23		
01	83	56	70	6	56	60	0	5				0.00	29.03	29.99	0.5	10	1.2	10	15	7	14	01		
02	85*	56	71	7	59	63	0	6	FG+ FG BR			0.00	29.09	30.03	0.7	18	1.9	15	23	9	23	02		
03	76	60	68	4	62	65	0	3	FG+ FG BR			0.50	28.91	29.84	2.1	22	4.3	20	21	13	19	03		
04	61	41	51	-12	36	44	14	0	RA BR			0.00	28.98	29.96	2.4	27	4.7	22	25	13	26	04		
05	67	37*	52	-11	37	45	13	0				0.00	29.00	29.99	1.9	20	3.3	20	21	13	18	05		
06	68	49	59	-3	52	55	6	0	RA BR			1.03	28.98	29.95	1.2	23	3.0	30*	19	17	20	06		
07	72	57	65	3	60	62	0	0	RA BR			0.64	29.03	29.98	0.6	23	1.4	17	19	9	26	07		
08	81	56	69	8	56	61	0	4	RA			0.04	29.10	30.07	1.1	25	2.8	15	27	9	26	08		
09	75	52	64	3	58	60	1	0	RA FG+ FG BR			0.01	29.16	30.11	0.5	04	1.0	11	34	7	08	09		
10	71	60	66	5	64	65	0	1	RA FG BR			0.50	29.07	30.01	0.7	21	1.1	10	27	6	26	10		
11	76	62	69	9	64	66	0	4	RA BR			0.07	29.05	30.00	0.5	21	3.6	16	26	10	27	11		
12	74	62	68	8	63	64	0	3	RA BR			0.96	29.09	30.05	0.0	17	0.3	16	17	12	16	12		
13	83	65	74*	15	63	66	0	9	RA BR			0.05	29.09	30.01	3.0	18	3.2	26	19	17*	19	13		
14	71	59	65	6	61	63	0	0	RA FG BR			1.47	28.84	29.77	1.5	18	4.1	24	25	13	22	14		
15	62	55	59	0	53	55	6	0	RA BR			0.38	28.89	29.85	2.1	20	4.4	17	20	10	24	15		
16	63	50	57	-1	50	53	8	0				0.00	28.92	29.90	1.9	23	3.8	14	27	9	27	16		
17	76	45	61	3	52	55	4	0	FG BR			0.00	28.95	29.90	1.8	23	3.1	20	20	12	20	17		
18	68	49	59	1	47	52	6	0				0.00	29.00	29.99	2.1	28	3.3	18	02	10	33	18		
19	66	47	57	0	43	49	8	0				0.00	29.18	30.16	0.1	08	1.8	13	07	9	08	19		
20	68	43	56	-1	48	51	9	0	RA FG+ BR			T	29.10	30.06	0.7	23	1.8	16	27	10	20	20		
21	70	46	58	2	45	51	7	0				0.00	29.05	30.03	0.9	27	2.8	18	36	12	35	21		
22	63	41	52	-4	40	45	13	0				0.00	29.21	30.20	0.9	08	2.7	18	07	14	07	22		
23	65	41	53	-3	42	47	12	0				0.00	29.20	30.17	1.0	06	2.1	17	08	12	08	23		
24	70	46	58	3	45	50	7	0				0.00	29.12	30.10	0.3	11	0.6	12	05	8	06	24		
25	74	40	57	2	46	50	8	0	FG+ FG BR			0.00	29.10	30.07	0.5	23	1.3	11	23	7	20	25		
26	79	49	64	9	52	55	1	0	FG+ BR			0.00	29.05	30.01	0.2	17	0.8	11	19	8	12	26		
27	81	49	65	11	55	58	0	0	FG+ FG BR			0.00	29.08	30.05			0.8	12	19	9	18	27		
28	77	56	67	13	58	61	0	2	BR			0.00	29.10	30.06	2.0	22	3.2	20	21	12	19	28		
29	67	45	56	3	49	52	9	0	RA BR			0.63	29.13	30.10	0.2	17	1.2	12	04	8	07	29		
30	65	40	53	0	41	45	12	0	FG+ FG BR			0.00	29.11	30.09	0.1	18	0.4	10	14	7	28	30		
31	53	39	46*	-7	38	42	19	0	RA			0.02	29.00	29.99	1.2	31	2.2	22	32	13	32	31		
71.3		50.1	60.7	☼	51.5	55.2	5.3	1.2	< MONTHLY AVERAGES TOTALS >				6.30	29.05	30.02	0.7	22	2.3	< MONTHLY AVERAGES					
0.2		2.1	1.2		<-----DEPARTURE FROM NORMAL ----->						3.38	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.47 DATE : 14				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.26		22		2214			
TOTAL DEPARTURE									GREATEST SNOW DEPTH :				MINIMUM :				29.67		14		1153			
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH: 13							
HEATING : 163 -36									THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 8									
COOLING : 37 7													HEAVY FOG : 8		SNOWFALL >= 1.0 INCH :									

OCTOBER 2014
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 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												02	0.00	0.00	
03			T		0.01	T	0.13	0.12	0.08	0.04	T		03					0.08	0.04				T	03	0.50	0.50		
04													04											04	0.00	0.00		
05													05											05	0.00	0.00		
06													06		T		T	T			0.03	0.37	T	0.19	06	1.03	1.03	
07	0.04		0.01	0.14	0.14		T	T	0.01	T		0.37	0.07	0.11										07	0.64	0.64		
08			T	0.04								0.08	0.11											08	0.04	0.04		
09														T	0.01									09	0.01	0.01		
10												0.03	0.02		0.08	0.09	0.11	0.03	T					10	0.50	0.50		
11	0.04	0.01												T	T	0.01						0.01		11	0.07	0.07		
12		0.01		T		T			0.07	T	T						0.01	0.47	0.25		T	0.04	0.11	12	0.96	0.96		
13	0.04	T			T			T	0.01															13	0.05	0.05		
14		0.02	0.01	0.17	0.20	0.17	0.16	0.18	T	T	T	0.07	0.01	0.39	0.09	0.01								14	1.47	1.47		
15		T	T									0.01			T	0.05	0.03	0.04	0.10	0.02	0.05	0.03	0.04	0.01	15	0.38	0.38	
16																									16	0.00	0.00	
17																									17	0.00	0.00	
18																									18	0.00	0.00	
19																									19	0.00	0.00	
20																T								20	T	T		
21																									21	0.00	0.00	
22																									22	0.00	0.00	
23																									23	0.00	0.00	
24																									24	0.00	0.00	
25																									25	0.00	0.00	
26																									26	0.00	0.00	
27																									27	0.00	0.00	
28																									28	0.00	0.00	
29	T	0.09	0.25	0.05	0.14	0.07	0.03	T																	29	0.63	0.63	
30																									30	0.00	0.00	
31											T				T		T	0.01	T	0.01	T	T	T	31	0.02	0.02		

* 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)	0.30	0.39	0.45	0.46	0.47	0.47	0.52	0.71	0.73	0.73	0.73	0.73
Ending Date	12	12	12	12	12	12	12	12	12	12	12	12
Ending Time (Hr/Min)	1711	1715	1719	1722	1722	1722	1805	1825	1825	1825	1825	1825

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 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	0.25	10.00
02	0.25	10.00
03	2.50	10.00
04	10.00	10.00
05	10.00	10.00
06	2.00	10.00
07	2.50	10.00
08	8.00	10.00
09	0.25	10.00
10	1.75	10.00
11	3.00	10.00
12	5.00	10.00
13	6.00	10.00
14	0.50	10.00
15	2.50	10.00
16	10.00	10.00
17	0.50	10.00
18	9.00	10.00
19	10.00	10.00
20	0.00	10.00
21	10.00	10.00
22	10.00	10.00
23	10.00	10.00
24	10.00	10.00
25	0.25	10.00
26	0.00	10.00
27	0.25	10.00
28	5.00	10.00
29	4.00	10.00
30	0.25	10.00
31	7.00	10.00
AVGS	4.54	10.00
MINIMUM VISIBILITY (MILES)		
	<= .25	<= 3.0 >= 7.0
	8	16 11

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN OCTOBER 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: 0653					OCT 25								SUNSET: 1749				
01	CLR	NC	10.00		44	42	43	93	0	00	29.13	30.09					
04	VV	002	0.50	FG	41	40	41	96	0	00	29.12	30.09					
07	VV	002	0.50	FG	41	40	41	96	0	00	29.14	30.13					
10	CLR	NC	10.00		54	47	50	77	0	00	29.14	30.13					
13	CLR	NC	10.00		69	48	57	47	5	VR	29.10	30.06					
16	FEW	042	10.00		72	50	59	46	5	VR	29.05	30.01					
19	CLR	NC	10.00		62	53	57	73	0	00	29.06	30.04					
22	CLR	NC	9.00		54	51	52	90	0	00	29.07	30.04					
SUNRISE: 0654					OCT 26								SUNSET: 1748				
01	CLR	NC	7.00		52	49	50	89	0	00	29.05	30.01					
04	CLR	NC	8.00		50	47	48	89	0	00	29.04	30.00					
07	SCT	007	5.00	BR	50	48	49	93	0	00	29.06	30.03					
10	CLR	NC	10.00		61	55	58	81	0	00	29.09	30.05					
13	CLR	NC	10.00		75	53	62	46	3	17	29.05	30.00					
16	CLR	NC	10.00		78	52	63	40	3	VR	29.02	29.97					
19	CLR	NC	10.00		63	57	60	81	0	00	29.04	30.01					
22	CLR	NC	10.00		56	53	54	90	0	00	29.07	30.03					
SUNRISE: 0654					OCT 27								SUNSET: 1747				
01	CLR	NC	10.00		53	50	51	89	0	00	29.06	30.01					
04	SCT	002	5.00	BR	50	49	49	96	0	00	29.08	30.03					
07	CLR	NC	9.00		50	47	48	89	0	00	29.13	30.10					
10	CLR	NC	10.00		63	54	58	73	0	00	29.15	30.11					
13	CLR	NC	10.00		78	61	67	56	3	VR	29.09	30.03					
16	CLR	NC	10.00		79	60	67	52	3	VR	29.06	30.01					
19	CLR	NC	10.00		67	62	64	84	0	00	29.07	30.03					
22	CLR	NC	7.00		60	58	59	93	0	00	29.09	30.04					
SUNRISE: 0655					OCT 28								SUNSET: 1746				
01	CLR	NC	6.00	BR	61	58	59	90	0	00	29.10	30.04					
04	CLR	NC	5.00	BR	59	57	58	93	0	00	29.10	30.05					
07	CLR	NC	6.00	BR	57	55	56	93	0	00	29.13	30.08					
10	SCT	046	10.00		68	60	63	76	7	25	29.16	30.12					
13	SCT	036	10.00		75	59	65	58	6	VR	29.13	30.08					
16	FEW	042	10.00		75	57	64	54	7	19	29.08	30.02					
19	CLR	NC	10.00		70	58	63	66	3	21	29.09	30.04					
22	OVC	039	10.00		67	58	62	73	0	00	29.09	30.03					
SUNRISE: 0656					OCT 29								SUNSET: 1745				
01	OVC	025	10.00	-RA	66	59	62	78	5	25	29.08	30.02					
04	OVC	037	6.00	RA BR	55	53	54	93	6	07	29.12	30.06					
07	OVC	110	10.00	-RA	50	48	49	93	0	00	29.16	30.12					
10	OVC	036	10.00		53	49	51	86	0	00	29.17	30.13					
13	OVC	065	10.00		58	48	53	70	0	00	29.14	30.11					
16	CLR	NC	10.00		63	43	53	48	5	18	29.10	30.06					
19	CLR	NC	10.00		53	48	50	83	0	00	29.13	30.11					
22	CLR	NC	10.00		47	45	46	93	0	00	29.15	30.14					
SUNRISE: 0657					OCT 30								SUNSET: 1744				
01	BKN	002	1.50	BR	44	42	43	93	0	00	29.13	30.12					
04	VV	002	0.50	FG	42	40	41	92	0	00	29.13	30.11					
07	VV	002	0.50	FG	40	40	40	100	0	00	29.15	30.15					
10	CLR	NC	10.00		51	43	47	74	0	00	29.15	30.14					
13	CLR	NC	10.00		61	38	50	43	3	VR	29.10	30.08					
16	CLR	NC	10.00		63	39	51	41	3	18	29.05	30.02					
19	CLR	NC	10.00		51	44	48	77	0	00	29.07	30.05					
22	CLR	NC	10.00		46	42	44	86	0	00	29.07	30.04					

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		42	39	41	89	0	00	29.05	30.03					
04	CLR	NC	10.00		40	38	39	93	0	00	29.03	30.00					
07	OVC	100	10.00		41	39	40	93	0	00	29.02	30.00					
10	OVC	065	10.00		48	42	45	80	0	00	29.02	30.01					
13	OVC	039	10.00		53	42	48	66	5	27	28.97	29.95					
16	OVC	026	10.00		51	41	46	69	7	26	28.94	29.93					
19	OVC	065	10.00		44	34	40	68			29.01	30.00					
22	OVC	034	10.00		41	31	37	67	0	00	29.04	30.03					

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.

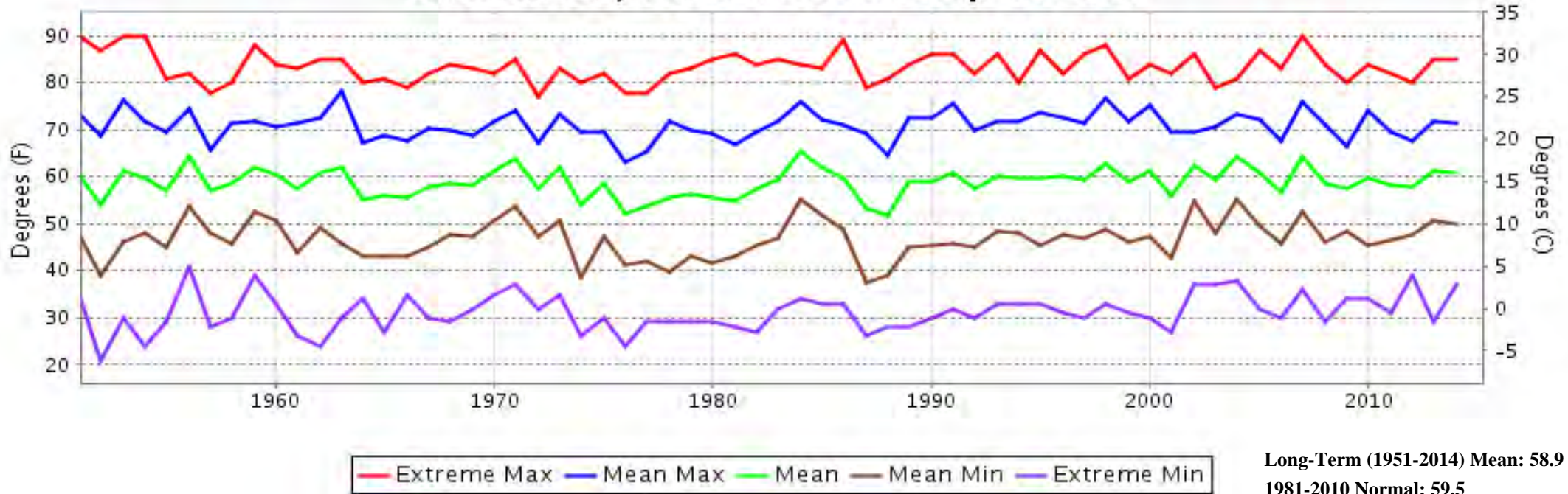
& = Original observation contained additional weather elements.

See page 3 for additional notes.

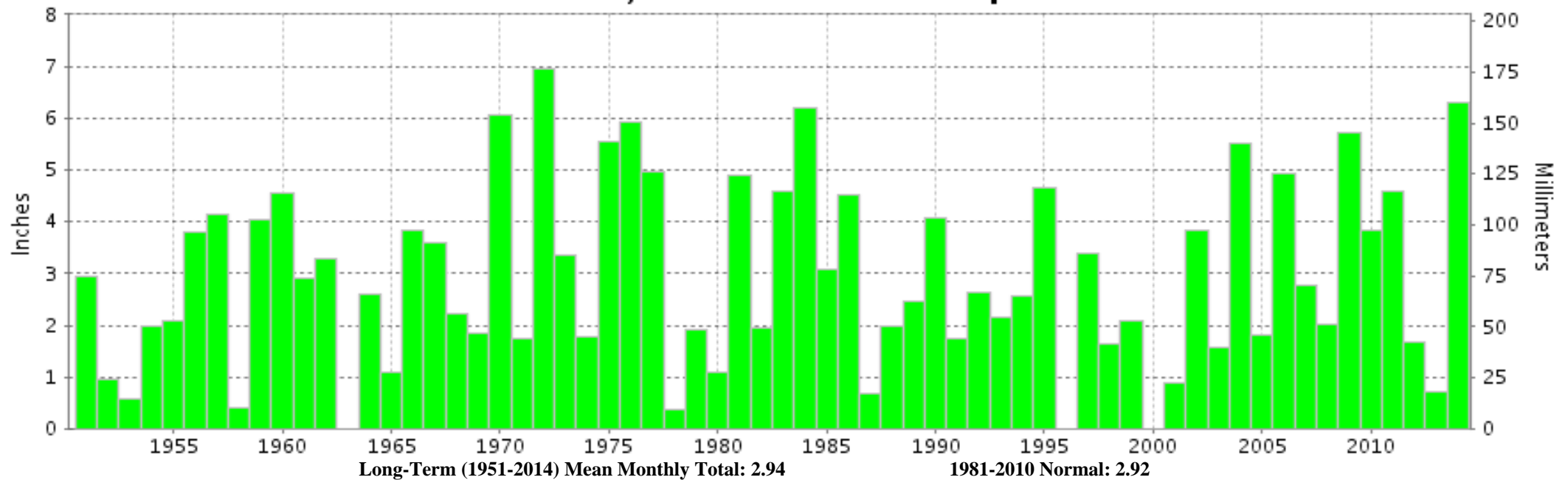
SUMMARY BY HOUR

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	52	53	88	29.05	30.01	8.95	1	3	25
02	55	52	53	89	29.06	30.01	8.30	1	2	23
03	54	51	53	90	29.05	30.00	8.25	1	3	24
04	54	51	52	90	29.05	30.01	7.52	1	1	20
05	53	50	52	90	29.06	30.02	7.80	1	xx	xx
06	53	50	51	91	29.07	30.03	7.61	1	2	20
07	52	50	51	91	29.08	30.04	6.79	1	2	22
08	54	51	52	90	29.09	30.06	7.04	2	2	24
09	57	52	54	84	29.09	30.06	9.08	2	xx	xx
10	60	52	56	76	29.09	30.06	9.84	3	3	25
11	63	52	57	68	29.09	30.05	9.40	4	1	24
12	66	51	58	62	29.08	30.03	9.45	4	2	23
13	67	52	59	60	29.05	30.01	9.43	5	2	25
14	69	52	59	57	29.03	29.99	9.81	5	2	25
15	69	51	59	56	29.02	29.98	9.58	5	1	22
16	70	51	59	54	29.02	29.97	9.60	5	3	26
17	68	52	59	57	29.02	29.97	9.53	4	2	25
18	65	53	58	65	29.03	29.99	9.47	3	2	25
19	62	53	57	73	29.04	30.00	9.74	2	2	25
20	60	53	56	78	29.05	30.01	9.71	2	2	24
21	58	52	55	82	29.06	30.02	9.71	1	1	18
22	57	52	54	85	29.06	30.03	9.55	1	xx	xx
23	56	52	54	86	29.06	30.02	9.52	0	xx	xx
24	55	51	53	87	29.06	30.02	9.29	1	xx	xx

OAK RIDGE, TN OCTOBER Temperatures



OAK RIDGE, TN OCTOBER Precipitation





**OCTOBER 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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