



AUGUST 2016 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			
20	21	22	23	24																				
01	94	71	83	5	70	74	0	18	RA FG+ BR			T	29.11	30.04	0.2	08	1.5	13	25	9	27	01		
02	94	74	84	6	69	73	0	19	RA			T	29.09	30.01	0.9	26	2.6	18	20	9	33	02		
03	93	71	82	5	68	73	0	17				0.00	29.06	29.98	0.6	29	1.8	14	07	8	28	03		
04	94	73	84	7	69	73	0	19	RA BR			0.11	29.03	29.95	0.6	25	1.9	18	29	10	25	04		
05	90	73	82	5	72	75	0	17	RA BR			0.34	29.02	29.94	1.2	27	1.8			7	26	05		
06	92	71	82	5	71	74	0	17	RA FG+ FG BR			0.26	28.98	29.90	0.6	19	1.7	13	20	8	20	06		
07	90	73	82	5	72	74	0	17	BR			0.00	28.97	29.89	0.4	07	2.1	14	33	10	34	07		
08	92	74	83	6	73	75	0	18	RA			0.04	28.97	29.90	1.1	08	1.4	14	12	9	09	08		
09	94	74	84	7	70	74	0	19	RA			0.01	29.05	29.98	1.3	14	2.9	17	17	13	18	09		
10	93	74	84	7	69	74	0	19				0.00	29.15	30.07	0.9	11	1.3	15	10	10	13	10		
11	94	74	84	7	70	74	0	19				0.00	29.13	30.05	1.1	22	2.3	14	27	10	26	11		
12	96	73	85	8	70	74	0	20	RA			0.24	29.03	29.95	1.1	17	2.6	33*	23	17*	22	12		
13	92	76	84	7	69	74	0	19				0.00	29.05	29.97	1.4	22	3.3	22	20	13	21	13		
14	95	72	84	7	68	73	0	19				0.00	29.13	30.06	1.1	24	3.1	17	25	12	27	14		
15	92	73	83	6	70	73	0	18	RA BR			0.35	29.19	30.12	0.7	16	2.0	25	21	15	19	15		
16	96	70	83	7	69	73	0	18	RA BR			0.05	29.21	30.14	0.6	25	2.5	20	21	12	26	16		
17	93	73	83	7	71	73	0	18	RA			0.16	29.21	30.13	0.8	24	2.1	24	26	14	26	17		
18	83	69	76	0	71	72	0	11	RA FG BR			0.79	29.18	30.10	0.4	22	0.8	14	24	8	26	18		
19	80	72	76	0	71	72	0	11	RA			0.05	29.08	30.00	0.7	22	1.2	9	28	7	27	19		
20	85	72	79	3	72	73	0	14	RA BR			0.35	28.97	29.89	0.8	21	1.4	14	18	9	16	20		
21	83	67	75	-1	70	72	0	10	RA FG+ FG BR			1.16	28.98	29.93	0.8	27	2.2	21	31	14	31	21		
22	84	61*	73*	-3	60	65	0	8	FG+ FG BR			0.00	29.19	30.15	0.4	07	1.3	13	07	8	08	22		
23	88	62	75	0	62	66	0	10				0.00	29.28	30.23	0.3	28	2.0		7	27	23	23		
24	91	68	80	5	68	71	0	15				0.00	29.26	30.18			1.2		7		24	24		
25	92	73	83	8	72	74	0	18				0.00	29.20	30.11	1.1	26	2.4	13	21	9	26	25		
26	95	72	84	9	72	75	0	19	FG+ FG BR			0.00	29.15	30.07	0.4	07	1.3	14	09	9	10	26		
27	96*	73	85*	10	70	74	0	20	RA BR			T	29.15	30.07	0.7	08	1.4	19	14	12	14	27		
28	95	71	83	8	69	72	0	18	RA			T	29.19	30.12	0.8	08	1.8	23	07	12	06	28		
29	94	70	82	7	66	71	0	17				0.00	29.18	30.10	0.5	09	1.4	13	08	9	06	29		
30	94	72	83	9	67	72	0	18				0.00	29.12	30.04			1.0	10	06	7	08	30		
31	94	71	83	9	68	72	0	18				0.00	29.03	29.94	0.3	31	1.2	14	33	9	32	31		

91.5	71.4	81.5	☼	69.3	72.7	0.0	16.7	< MONTHLY AVERAGES TOTALS >				3.91	29.10	30.03	0.3	21	1.9	< MONTHLY AVERAGES			
3.5	4.2	3.9		-----DEPARTURE FROM NORMAL -----				1.15	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.51 DATE : 20-21				SEA LEVEL PRESSURE							
MONTHLY				GREATEST 24-HR SNOWFALL :				DATE				TIME			
TOTAL DEPARTURE				SEASON TO DATE				DATE				TIME			
TOTAL DEPARTURE				TOTAL DEPARTURE				DATE				TIME			
HEATING :				NUMBER OF				MAXIMUM TEMP >= 90 : 25				MINIMUM TEMP <= 32 : 0			
COOLING :				DAYS WITH				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0			
COOLING :				DAYS WITH				THUNDERSTORMS : 0				HEAVY FOG : 5			
COOLING :				DAYS WITH				PRECIPITATION >= 0.01 INCH : 13				PRECIPITATION >= 0.10 INCH : 9			
COOLING :				DAYS WITH				PRECIPITATION >= 0.10 INCH : 9				SNOWFALL >= 1.0 INCH :			

AUGUST 2016
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 2016

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													02	T											02	T	T	
03													03												03	0.00	0.00	
04													04			T						T	0.02	0.09	04	0.11	0.11	
05	0.01	0.17	0.16										05		T	T									05	0.34	0.34	
06													06												06	0.26	0.26	
07													07												07	0.00	0.00	
08													08				0.04	T							08	0.04	0.04	
09				T	T	0.01							09												09	0.01	0.01	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.24	0.24	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.35	0.35	
16													16												16	0.05	0.05	
17													17		0.11	T		0.01	0.04						17	0.16	0.16	
18													18	T					T						18	0.79	0.79	
19													19	0.02	0.02	0.01		T							19	0.05	0.05	
20													20		0.01	0.07	0.14		0.06		T	0.06	0.01	T	20	0.35	0.35	
21				T	T			0.01					21	0.01	T										21	1.16	1.16	
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	T	T	
28													28												28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	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)												
Ending Date												
Ending Time (Hr/Min)												

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 AUGUST 2016

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, TN
Lat/Lon:35.998/-84.2192 Elevation:1019ft
Distance:1.5mi Dir:SW
Augmented Elements:TEMP, PRECIP, SNOW
Equipment:PRECIP-MODEL TRP525M, TEMP-VAISALA HMP 35C, SNOWBOARD, SNOWSTICK

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	3.00	10.00
02	10.00	10.00
03	10.00	10.00
04	2.00	10.00
05	8.00	10.00
06	0.25	10.00
07	1.75	10.00
08	6.00	10.00
09	9.00	10.00
10	10.00	10.00
11	10.00	10.00
12	10.00	10.00
13	10.00	10.00
14	10.00	10.00
15	10.00	10.00
16	0.75	10.00
17	7.00	10.00
18	0.50	10.00
19	9.00	10.00
20	2.50	10.00
21	3.00	10.00
22	0.25	10.00
23	10.00	10.00
24	10.00	10.00
25	9.00	10.00
26	0.25	10.00
27	6.00	10.00
28	10.00	10.00
29	10.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	6.72	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
3	10	19

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2016

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: 0544					AUG 01					SUNSET: 1943					SUNRISE: 0549					AUG 07					SUNSET: 1937				
01	CLR	NC	10.00	BR	75	72	73	90	0	00	29.12	30.03	01	FEW	044	10.00	BR	75	72	73	90	0	00	28.96	29.88				
04	SCT	002	10.00		73	70	71	90	0	00	29.10	30.03	04	OVC	002	1.75		74	72	73	94	0	00	28.97	29.88				
07	OVC	002	6.00		72	70	71	94	0	00	29.15	30.08	07	OVC	090	7.00		75	72	73	90	0	00	28.99	29.90				
10	CLR	NC	10.00		84	70	74	63	0	00	29.16	30.08	10	OVC	100	10.00		81	74	76	79	3	VR	29.00	29.92				
13	FEW	047	10.00		91	68	75	47	3	VR	29.13	30.04	13	OVC	075	10.00		85	73	77	68	7	VR	28.98	29.90				
16	CLR	NC	10.00		92	67	75	44	6	VR	29.08	29.99	16	SCT	085	10.00		87	72	76	61	3	VR	28.94	29.86				
19	CLR	NC	10.00		89	71	76	55	0	00	29.09	30.01	19	OVC	100	10.00		83	70	74	65	3	VR	28.95	29.87				
22	CLR	NC	10.00		80	71	74	74	6	08	29.12	30.04	22	FEW	090	10.00		77	72	74	85	0	00	28.99	29.91				
SUNRISE: 0545					AUG 02					SUNSET: 1942					SUNRISE: 0549					AUG 08					SUNSET: 1936				
01	CLR	NC	10.00		76	71	73	85	0	00	29.10	30.02	01	FEW	110	10.00	-RA	75	72	73	90	0	00	28.97	29.88				
04	FEW	060	10.00		76	71	73	85	0	00	29.10	30.02	04	SCT	048	10.00		74	72	73	94	0	00	28.96	29.88				
07	SCT	050	10.00		77	72	74	85	0	00	29.13	30.04	07	OVC	080	10.00		75	72	73	90	0	00	28.99	29.91				
10	FEW	070	10.00		84	71	75	65	5	VR	29.13	30.04	10	OVC	120	10.00		82	73	76	74	0	00	29.02	29.93				
13	FEW	050	10.00		88	71	76	57	7	26	29.10	30.02	13	OVC	060	10.00		87	72	76	61	3	VR	28.99	29.90				
16	CLR	NC	10.00		91	65	73	42	7	32	29.05	29.96	16	OVC	100	6.00		83	75	77	77	8	07	28.95	29.87				
19	CLR	NC	10.00		89	66	73	47	5	33	29.05	29.96	19	FEW	070	10.00		82	73	76	74	0	00	28.96	29.88				
22	CLR	NC	10.00		78	68	71	71	0	00	29.09	30.01	22	CLR	NC	10.00		78	74	75	87	0	00	29.00	29.91				
SUNRISE: 0546					AUG 03					SUNSET: 1941					SUNRISE: 0550					AUG 09					SUNSET: 1935				
01	CLR	NC	10.00		75	69	71	82	0	00	29.08	29.99	01	CLR	NC	10.00		76	73	74	91	0	00	29.02	29.93				
04	CLR	NC	10.00		72	69	70	91	0	00	29.07	29.98	04	OVC	060	10.00		75	72	73	90	0	00	29.03	29.95				
07	CLR	NC	10.00		74	69	71	85	0	00	29.10	30.02	07	OVC	055	10.00		76	73	74	91	0	00	29.07	29.99				
10	FEW	038	10.00		84	69	74	61	3	VR	29.10	30.02	10	FEW	024	10.00		84	72	76	67			29.10	30.01				
13	CLR	NC	10.00		91	65	73	42	5	VR	29.08	29.99	13	OVC	070	10.00		90	69	75	50	5	VR	29.08	30.00				
16	SCT	085	10.00		92	64	73	40	5	VR	29.03	29.94	16	FEW	055	10.00		92	67	75	44	8	14	29.03	29.94				
19	CLR	NC	10.00		89	68	75	50	0	00	29.01	29.93	19	CLR	NC	10.00		89	68	75	50	3	VR	29.06	29.97				
22	CLR	NC	10.00		80	70	73	71	0	00	29.04	29.95	22	SCT	085	10.00		84	66	72	55	3	16	29.12	30.03				
SUNRISE: 0546					AUG 04					SUNSET: 1940					SUNRISE: 0551					AUG 10					SUNSET: 1934				
01	SCT	065	10.00	-RA	76	69	71	79	0	00	29.04	29.95	01	CLR	NC	10.00		76	71	73	85	0	00	29.13	30.04				
04	CLR	NC	10.00		74	69	71	85	0	00	29.03	29.94	04	BKN	050	10.00		75	71	72	88	0	00	29.13	30.04				
07	SCT	070	10.00		74	70	71	88	0	00	29.07	29.98	07	OVC	055	10.00		75	71	72	88	0	00	29.17	30.09				
10	CLR	NC	10.00		84	69	74	61	5	VR	29.08	29.99	10	OVC	055	10.00		81	71	74	72	3	07	29.20	30.12				
13	FEW	042	10.00		92	69	76	47	0	00	29.03	29.94	13	BKN	090	10.00		87	70	75	57	0	00	29.18	30.11				
16	CLR	NC	10.00		90	67	74	47	6	VR	29.00	29.91	16	BKN	075	10.00		93	67	75	42	7	10	29.13	30.04				
19	FEW	095	10.00		86	69	74	57	0	00	28.99	29.91	19	SCT	070	10.00		90	67	74	47	5	14	29.10	30.03				
22	OVC	100	10.00		79	71	74	77	6	VR	29.05	29.97	22	BKN	080	10.00		81	70	74	69	0	00	29.15	30.07				
SUNRISE: 0547					AUG 05					SUNSET: 1939					SUNRISE: 0552					AUG 11					SUNSET: 1933				
01	OVC	044	10.00		74	72	73	94	0	00	29.04	29.95	01	FEW	085	10.00		77	71	73	82	0	00	29.15	30.07				
04	OVC	050	10.00		75	72	73	90	0	00	29.02	29.93	04	BKN	100	10.00		75	72	73	90	0	00	29.15	30.07				
07	OVC	006	10.00		75	72	73	90	0	00	29.06	29.97	07	BKN	042	10.00		76	72	73	88	0	00	29.18	30.10				
10	OVC	013	10.00		79	72	74	79	3	VR	29.06	29.98	10	BKN	100	10.00		83	70	74	65	3	VR	29.17	30.09				
13	FEW	039	10.00		89	71	76	55	0	00	29.02	29.93	13	OVC	065	10.00		88	70	76	55	3	VR	29.13	30.06				
16	FEW	110	10.00		89	70	76	53	5	28	28.98	29.89	16	SCT	100	10.00		92	68	75	46	7	19	29.09	30.00				
19	CLR	NC	10.00		86	73	77	65	0	00	28.97	29.89	19	CLR	NC	10.00		88	69	75	54	5	21	29.08	29.99				
22	CLR	NC	10.00		79	74	76	85	0	00	29.01	29.93	22	CLR	NC	10.00		81	72	75	74	0	00	29.09	30.00				
SUNRISE: 0548					AUG 06					SUNSET: 1938					SUNRISE: 0553					AUG 12					SUNSET: 1932				
01	CLR	NC	9.00	FG	76	73	74	91	0	00	28.99	29.90	01	CLR	NC	10.00		76	71	73	85	0	00	29.06	29.98				
04	CLR	NC	7.00		73	70	71	90	0	00	28.98	29.90	04	BKN	070	10.00		74	71	72	91	0	00	29.07	29.98				
07	VV	002	0.50		72	71	71	97	0	00	29.02	29.93	07	BKN	050	10.00		75	71	72	88	3	08	29.09	30.00				
10	OVC	110	10.00		77	73	74	88	0	00	29.03	29.95	10	SCT	060	10.00		86	70	75	59	5	VR	29.08	29.99				
13	CLR	NC	10.00		87	70	75	57	3	VR	29.00	29.91	13	SCT	090	10.00		93	69	76	46			29.04	29.94				
16	CLR	NC	10.00		90	70	76	52	6	19	28.93	29.84	16	CLR	NC	10.00		94	68	76	43	6	VR	28.99	29.89				
19	CLR	NC	10.00		87	71	76	59	0	00	28.93	29.85	19	BKN	110	10.00		87	68	74	53	7	VR	28.98	29.89				
22	OVC	041	10.00		75	72	73	90	0	00	28.98	29.91	22	FEW	080	10.00		83	69	73	63	0	00	29.03	29.93				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2016

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: 0553					AUG 13					SUNSET: 1931					SUNRISE: 0558					AUG 19					SUNSET: 1923				
01	BKN	065	10.00		79	72	74	79	0	00	29.05	29.95	01	SCT	090	10.00		76	72	73	88	0	00	29.12	30.05				
04	CLR	NC	10.00		78	71	73	79	3	27	29.03	29.94	04	SCT	003	10.00		73	71	72	94	0	00	29.10	30.03				
07	CLR	NC	10.00		78	71	73	79	0	00	29.06	29.97	07	FEW	004	10.00		73	71	72	94	0	00	29.10	30.03				
10	OVC	041	10.00		83	70	74	65	8	20	29.09	30.00	10	FEW	014	10.00		78	70	73	76	0	00	29.10	30.02				
13	BKN	055	10.00		88	67	74	50	8	21	29.07	29.98	13	OVC	110	10.00	-RA	77	72	74	85	3	24	29.10	30.03				
16	BKN	070	10.00		89	66	73	47	6	VR	29.04	29.95	16	BKN	110	10.00		78	72	74	82	3	21	29.04	29.97				
19	CLR	NC	10.00		87	68	74	53	3	VR	29.04	29.96	19	BKN	110	10.00		78	70	73	76	0	00	29.03	29.95				
22	CLR	NC	10.00		79	70	73	74	0	00	29.10	30.01	22	CLR	NC	10.00		74	70	71	88	0	00	29.04	29.96				
SUNRISE: 0554					AUG 14					SUNSET: 1929					SUNRISE: 0559					AUG 20					SUNSET: 1922				
01	CLR	NC	10.00		75	70	72	84	0	00	29.12	30.03	01	OVC	080	10.00		72	69	70	91	0	00	29.03	29.96				
04	CLR	NC	10.00		74	69	71	85	0	00	29.10	30.02	04	OVC	027	10.00		73	69	70	87	0	00	29.01	29.93				
07	CLR	NC	10.00		75	69	71	82	0	00	29.15	30.08	07	OVC	008	10.00		74	70	71	88	3	21	29.01	29.93				
10	CLR	NC	10.00		85	68	73	57	5	VR	29.19	30.11	10	OVC	022	10.00		77	71	73	82	5	21	29.00	29.92				
13	SCT	060	10.00		91	67	75	45	6	VR	29.17	30.09	13	BKN	049	10.00		83	70	74	65	8	17	28.94	29.86				
16	CLR	NC	10.00		95	64	74	36	7	26	29.12	30.03	16	SCT	090	10.00		80	75	76	85	0	00	28.90	29.82				
19	CLR	NC	10.00		92	62	72	37	3	25	29.10	30.02	19	BKN	075	10.00		78	76	77	93	0	00	28.91	29.83				
22	BKN	090	10.00		83	70	74	65	0	00	29.18	30.10	22	BKN	043	10.00		75	73	74	94	0	00	28.94	29.87				
SUNRISE: 0555					AUG 15					SUNSET: 1928					SUNRISE: 0560					AUG 21					SUNSET: 1921				
01	CLR	NC	10.00		76	70	72	82	0	00	29.18	30.10	01	BKN	023	10.00		74	72	73	94	3	VR	28.93	29.85				
04	SCT	055	10.00		74	70	71	88	0	00	29.18	30.10	04	OVC	026	10.00		74	72	73	94	0	00	28.92	29.84				
07	CLR	NC	10.00		75	70	72	84	0	00	29.23	30.15	07	OVC	016	7.00	-RA	74	72	73	94	5	VR	28.96	29.88				
10	FEW	028	10.00		85	69	74	59	5	20	29.23	30.15	10	OVC	023	10.00	-RA	77	71	73	82	5	27	29.00	29.92				
13	BKN	070	10.00		90	68	75	48	5	VR	29.20	30.12	13	BKN	090	10.00	-RA	76	72	73	88	7	26	29.02	29.94				
16	BKN	100	10.00		92	66	74	43	7	20	29.15	30.07	16	SCT	085	10.00		83	70	74	65	0	00	29.00	29.92				
19	BKN	080	10.00		83	71	75	67	5	08	29.16	30.08	19	FEW	040	10.00		79	67	71	67	0	00	29.04	29.96				
22	OVC	110	10.00		74	72	73	94	3	VR	29.24	30.16	22	CLR	NC	10.00		70	68	69	93	0	00	29.12	30.05				
SUNRISE: 0556					AUG 16					SUNSET: 1927					SUNRISE: 0601					AUG 22					SUNSET: 1920				
01	FEW	120	10.00		73	70	71	90	0	00	29.23	30.15	01	CLR	NC	10.00		67	65	66	93	0	00	29.13	30.07				
04	BKN	002	5.00	BR	72	70	71	94	0	00	29.22	30.15	04	VV	002	0.50	FG	63	62	62	97	0	00	29.14	30.08				
07	OVC	002	0.75	BR	71	69	70	94	0	00	29.26	30.19	07	FEW	001	6.00	BR	62	60	61	93	0	00	29.20	30.14				
10	CLR	NC	10.00		84	71	75	65	0	00	29.26	30.19	10	CLR	NC	10.00		76	61	67	60	6	VR	29.23	30.17				
13	SCT	060	10.00		92	67	75	44	6	VR	29.21	30.14	13	CLR	NC	10.00		80	56	65	44	5	VR	29.23	30.17				
16	CLR	NC	10.00		95	66	75	39	7	VR	29.15	30.07	16	CLR	NC	10.00		81	56	66	42	0	00	29.20	30.14				
19	CLR	NC	10.00		89	67	74	48	0	00	29.15	30.08	19	CLR	NC	10.00		77	59	66	54	0	00	29.21	30.15				
22	SCT	075	10.00		83	70	74	65	5	VR	29.23	30.15	22	CLR	NC	10.00		69	63	65	81	0	00	29.25	30.19				
SUNRISE: 0557					AUG 17					SUNSET: 1926					SUNRISE: 0601					AUG 23					SUNSET: 1918				
01	SCT	050	10.00		76	73	74	91	0	00	29.24	30.16	01	CLR	NC	10.00		64	61	62	90	0	00	29.27	30.21				
04	CLR	NC	10.00		74	71	72	91	0	00	29.22	30.14	04	CLR	NC	10.00		62	60	61	93	0	00	29.27	30.22				
07	CLR	NC	10.00		75	71	72	88	0	00	29.24	30.16	07	CLR	NC	10.00		64	60	62	87	0	00	29.31	30.26				
10	CLR	NC	10.00		84	70	74	63	5	VR	29.24	30.16	10	CLR	NC	10.00		76	61	67	60	3	VR	29.34	30.28				
13	FEW	049	10.00		92	68	75	46	3	VR	29.19	30.11	13	CLR	NC	10.00		85	60	69	43			29.30	30.24				
16	FEW	050	10.00		92	68	75	46	8	26	29.13	30.04	16	CLR	NC	10.00		87	61	70	42	3	VR	29.25	30.19				
19	CLR	NC	10.00		77	72	74	85	0	00	29.16	30.09	19	CLR	NC	10.00		81	63	69	54	0	00	29.26	30.20				
22	CLR	NC	10.00		75	72	73	90	0	00	29.21	30.14	22	CLR	NC	10.00		72	66	68	82	0	00	29.28	30.22				
SUNRISE: 0557					AUG 18					SUNSET: 1925					SUNRISE: 0602					AUG 24					SUNSET: 1917				
01	CLR	NC	10.00		73	71	72	94	0	00	29.21	30.13	01	CLR	NC	10.00		69	65	66	87	0	00	29.27	30.20				
04	CLR	NC	10.00		72	70	71	94	0	00	29.19	30.11	04	SCT	060	10.00		68	65	66	90	0	00	29.26	30.19				
07	BKN	048	10.00		73	70	71	90	0	00	29.21	30.14	07	OVC	070	10.00		70	66	67	87	0	00	29.30	30.24				
10	OVC	021	0.50	+RA FG	70	69	69	97	7	25	29.24	30.18	10	OVC	075	10.00		77	67	70	71	0	00	29.31	30.25				
13	OVC	005	10.00		74	70	71	88	0	00	29.19	30.13	13	FEW	041	10.00		86	69	74	57	5	VR	29.28	30.21				
16	BKN	025	10.00		82	70	74	67	5	14	29.12	30.04	16	FEW	038	10.00		89	68	75	50	3	VR	29.21	30.14				
19	FEW	042	10.00		80	72	74	76	0	00	29.10	30.03	19	CLR	NC	10.00		86	69	74	57	0	00	29.19	30.12				
22	BKN	100	10.00		76	73	74	91	0	00	29.13	30.07	22	CLR	NC	10.00		78	72	74	82	0	00	29.22	30.15				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2016

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: 0603 AUG 25					SUNSET: 1916							
01	FEW	042	10.00		76	71	73	85	0	00	29.21	30.13
04	CLR	NC	10.00		74	71	72	91	0	00	29.22	30.14
07	FEW	055	10.00		75	71	72	88	0	00	29.24	30.17
10	FEW	022	10.00		83	70	74	65	5	VR	29.24	30.16
13	BKN	075	10.00		88	71	76	57	5	VR	29.20	30.12
16	BKN	110	10.00		90	72	77	56	5	31	29.15	30.07
19	CLR	NC	10.00		84	73	76	70	0	00	29.14	30.06
22	CLR	NC	10.00		78	73	75	85	0	00	29.15	30.07
SUNRISE: 0604 AUG 26					SUNSET: 1914							
01	CLR	NC	9.00		75	72	73	90	0	00	29.17	30.09
04	BKN	002	3.00	BR	73	71	72	94	0	00	29.17	30.09
07	VV	002	0.50	FG	73	72	72	96	0	00	29.18	30.11
10												
13	SCT	037	10.00		92	72	78	52	6	VR	29.16	30.08
16	FEW	049	10.00		94	71	78	48	0	00	29.10	30.01
19	CLR	NC	10.00		87	71	76	59	0	00	29.10	30.02
22	SCT	070	10.00		80	73	75	79	0	00	29.14	
SUNRISE: 0604 AUG 27					SUNSET: 1913							
01	CLR	NC	10.00		76	73	74	91	0	00	29.15	30.07
04	CLR	NC	9.00		74	72	73	94	0	00	29.12	30.03
07	OVC	002	6.00	BR	73	71	72	94	0	00	29.16	30.08
10	CLR	NC	10.00		85	71	75	63	0	00	29.19	30.11
13	SCT	055	10.00		93	70	77	47	0	00	29.15	30.07
16	FEW	065	10.00		92	68	75	46	0	00	29.10	30.02
19	CLR	NC	10.00		83	70	74	65	5	09	29.13	30.06
22	CLR	NC	10.00		77	70	72	79	0	00	29.20	30.12
SUNRISE: 0605 AUG 28					SUNSET: 1912							
01	CLR	NC	10.00		74	70	71	88	0	00	29.18	30.09
04	CLR	NC	10.00		72	69	70	91	0	00	29.17	30.10
07	CLR	NC	10.00		72	69	70	91	0	00	29.23	30.16
10	CLR	NC	10.00		84	69	74	61	5	VR	29.25	30.17
13	SCT	110	10.00		92	69	76	47	5	VR	29.21	30.13
16	CLR	NC	10.00		93	68	76	44	0	00	29.13	30.04
19	FEW	110	10.00		74	69	71	85	0	00	29.15	30.09
22	CLR	NC	10.00		74	69	71	85	0	00	29.19	30.11
SUNRISE: 0606 AUG 29					SUNSET: 1910							
01	CLR	NC	10.00		72	69	70	91	0	00	29.19	30.11
04	CLR	NC	10.00		71	68	69	90	0	00	29.18	30.10
07	FEW	003	10.00		71	68	69	90	0	00	29.21	30.14
10	CLR	NC	10.00		82	66	71	58	3	VR	29.23	30.16
13	CLR	NC	10.00		89	62	71	41	7	11	29.21	30.13
16	CLR	NC	10.00		92	61	72	36	3	VR	29.14	30.06
19	CLR	NC	10.00		87	65	72	48	0	00	29.13	30.05
22	CLR	NC	10.00		78	69	72	74	0	00	29.15	30.08
SUNRISE: 0607 AUG 30					SUNSET: 1909							
01	CLR	NC	10.00		75	70	72	84	0	00	29.14	30.07
04	CLR	NC	10.00		72	69	70	91	0	00	29.14	30.06
07	CLR	NC	10.00		73	69	70	87	0	00	29.16	30.09
10	CLR	NC	10.00		82	69	73	65	3	VR	29.17	30.10
13	CLR	NC	10.00		90	66	74	45	0	00	29.14	30.06
16	CLR	NC	10.00		93	63	73	37	5	VR	29.08	29.99
19	CLR	NC	10.00		87	65	72	48	0	00	29.05	29.96
22	CLR	NC	10.00		77	69	72	77	0	00	29.08	30.00

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: 0608 AUG 31					SUNSET: 1908							
01	CLR	NC	10.00		75	69	71	82	0	00	29.09	30.00
04	BKN	070	10.00		74	69	71	85	0	00	29.08	29.99
07	CLR	NC	10.00		72	68	69	87	0	00	29.08	29.99
10	CLR	NC	10.00		84	68	73	59	0	00	29.07	29.98
13	FEW	050	10.00		92	65	74	41	3	VR	29.01	29.92
16	SCT	055	10.00		94	66	75	40	3	VR	28.96	29.87
19	CLR	NC	10.00		84	67	73	57	3	27	28.96	29.88
22	OVC	120	10.00		78	69	72	74	0	00	28.99	29.91

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.

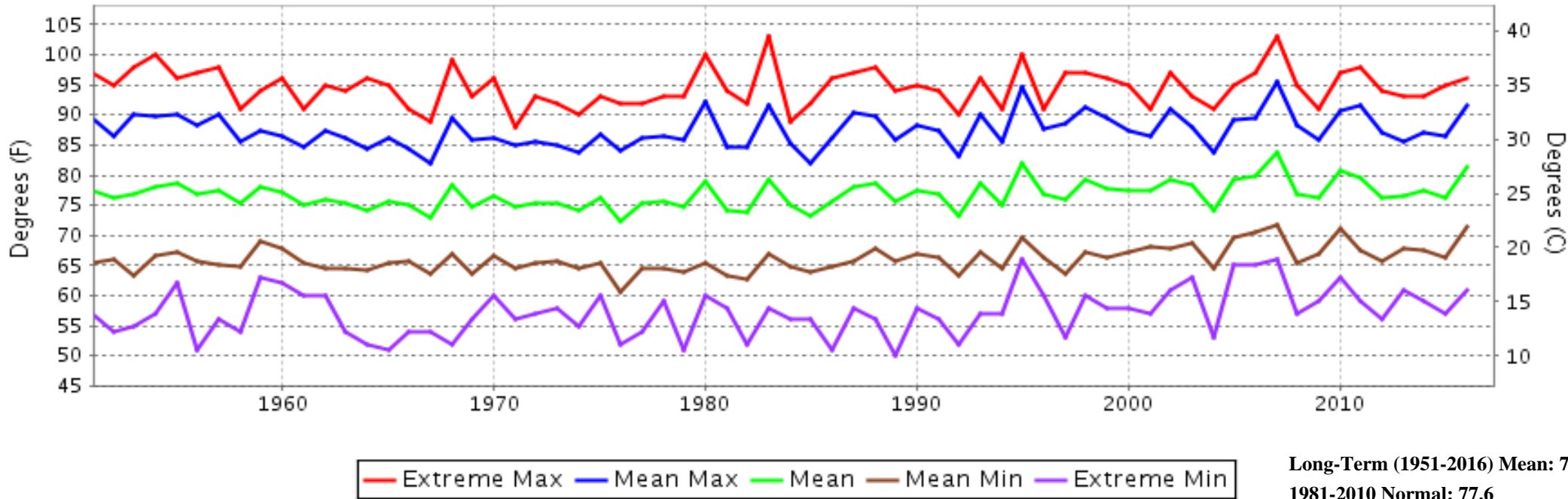
& = Original observation contained additional weather elements.

See page 3 for additional notes.

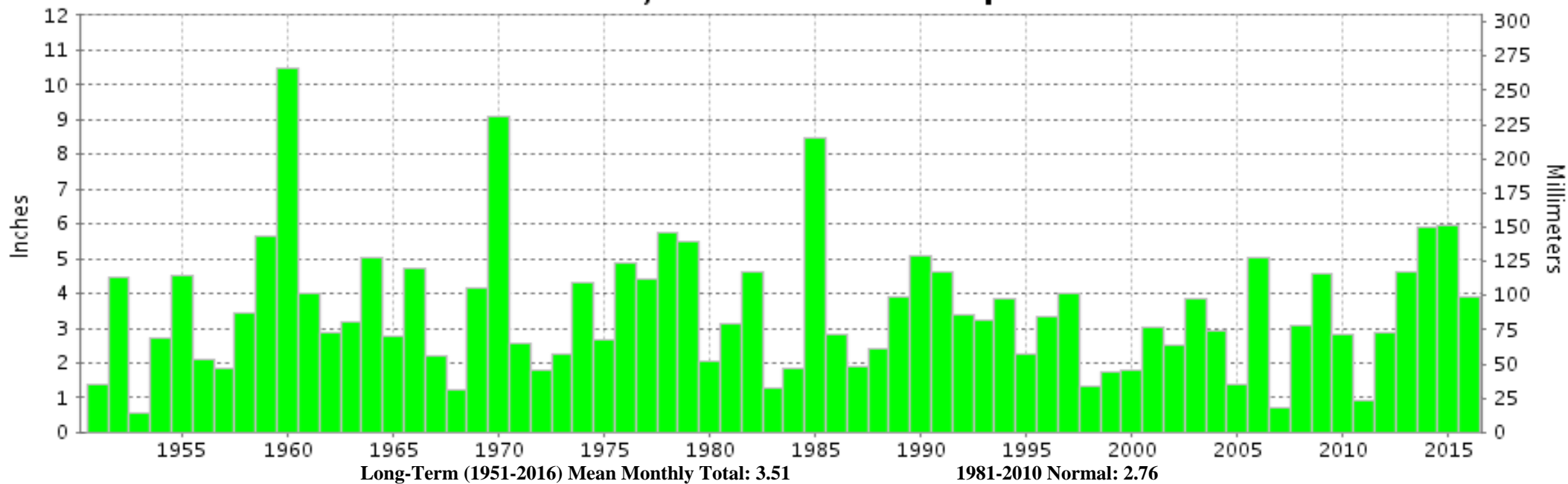
SUMMARY BY HOUR

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	74	70	72	88	29.12	30.03	9.94	0	XX	XX
02	74	70	71	89	29.11	30.03	9.81	0	XX	XX
03	73	70	71	90	29.11	30.03	9.46	0	XX	XX
04	73	70	71	90	29.11	30.03	8.91	0	XX	XX
05	72	70	71	91	29.11	30.04	8.82	0	XX	XX
06	72	69	70	91	29.13	30.05	8.23	0	XX	XX
07	73	70	71	89	29.14	30.06	8.51	0	XX	XX
08	76	70	72	83	29.15	30.07	9.73	1	1	27
09	79	70	73	75	29.15	30.07	10.00	2	1	36
10	81	70	73	68	29.15	30.07	9.68	3	2	27
11	84	69	74	62	29.15	30.07	9.61	3	1	27
12	86	69	74	57	29.14	30.06	9.77	4	0	36
13	88	68	74	54	29.12	30.04	10.00	4	2	27
14	88	68	74	54	29.11	30.03	9.87	4	3	27
15	89	68	74	51	29.08	30.00	9.76	5	2	27
16	90	67	74	50	29.07	29.99	9.87	4	1	27
17	88	68	74	52	29.07	29.99	9.90	5	1	27
18	87	68	74	56	29.07	29.99	10.00	3	3	27
19	84	69	74	60	29.07	29.99	10.00	2	0	36
20	81	70	73	69	29.08	30.01	10.00	1	2	36
21	79	70	73	75	29.10	30.02	9.97	1	1	36
22	78	70	73	79	29.11	30.03	10.00	1	XX	XX
23	76	70	72	83	29.12	30.04	10.00	0	XX	XX
24	75	70	72	86	29.11	30.03	9.74	0	XX	XX

OAK RIDGE, TN AUGUST Temperatures



OAK RIDGE, TN AUGUST Precipitation





**AUGUST 2016
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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