



JULY 2008

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		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	85	54*	70*	-6	51	59	0	5				0.00	29.10	30.06	0.5	30	1.7	15	36	9	26	01		
02	87	56	72	-4	54	61	0	7				0.00	29.13	30.07	0.7	19	1.9	16	21	13	18	02		
03	90	59	75	-1	56	64	0	10	BR			0.00	29.11	30.04	1.8	22	2.8	20	22	12	21	03		
04	91	70	81	5	63	68	0	16	RA BR HZ			0.02	29.07	29.99	1.8	25	3.3	31	25	18	27	04		
05	86	68	77	0	66	68	0	12	RA BR			0.32	29.05	29.97	1.1	22	2.4	14	20	9	06	05		
06	90	68	79	2	64	69	0	14				0.00	29.05	29.98	1.0	24	2.3	17	18	10	21	06		
07	90	66	78	1	64	69	0	13	RA			T	29.11	30.05	1.0	22	2.7	16	25	10	26	07		
08	90	69	80	3	66	71	0	15	RA BR			0.35	29.10	30.03	1.5	26	2.4	23	27	12	28	08		
09	89	71	80	3	69	71	0	15	RA FG BR HZ			0.61	29.10	30.02	2.3	21	3.5	25	20	17	18	09		
10	80	69	75	-2	69	70	0	10	RA BR			0.61	29.12	30.06	0.4	05	0.5	10	06	8	06	10		
11	90	68	79	2	64	69	0	14	FG+ FG BR			0.00	29.13	30.08	0.3	04	1.1	13	01	8	06	11		
12	93	66	80	3	67	70	0	15	RA BR			0.09	29.12	30.05	1.5	22	2.2	26	25	17	25	12		
13	82	71	77	0	69	71	0	12	RA FG BR			0.69	28.97	29.89	1.2	21	2.6	13	23	8	19	13		
14	86	63	75	-2	59	65	0	10	BR			0.00	29.00	29.94	1.5	06	2.3	14	06	10	07	14		
15	87	61	74	-3	58	64	0	9				0.00	29.12	30.07	1.9	04	3.3	18	36	12	07	15		
16	89	63	76	-1	59	65	0	11				0.00	29.20	30.14	1.5	05	2.4	14	08	10	08	16		
17	91	65	78	1	60	66	0	13	BR HZ			0.00	29.18	30.11	0.9	04	1.7	17	04	9	07	17		
18	91	63	77	-1	61	66	0	12	BR HZ			0.00	29.13	30.05	0.1	34	1.2	12	26	8	26	18		
19	91	63	77	-1	63	68	0	12	BR HZ			0.00	29.10	30.04	0.8	26	1.5	12	26	8	27	19		
20	91	67	79	1	68	71	0	14	BR HZ			0.00	29.10	30.03	1.3	22	2.3	15	24	9	26	20		
21	97*	70	84*	6	68	72	0	19	RA BR HZ			T	29.05	29.98	1.4	22	3.0	33*	31	22*	33	21		
22	92	68	80	2	65	69	0	15	RA			0.02	29.07	29.99	1.1	19	2.2		7	27	22			
23	88	67	78	0	62	67	0	13	RA BR HZ			T	29.04	29.98	0.8	24	2.3	16	36	10	35	23		
24	85	59	72	-6	57	63	0	7				0.00	29.11	30.06	0.3	02	1.4	13	09	9	06	24		
25	83	70	77	-1	63	68	0	12	RA			T	29.15	30.08	1.0	22	1.9	15	20	10	20	25		
26	85	70	78	0	70	72	0	13	RA BR HZ			1.57	29.06	29.98	0.8	21	2.1	13	19	9	19	26		
27	92	71	82	4	68	72	0	17	FG BR			0.00	28.97	29.90	0.8	26	2.0	13	19	9	19	27		
28	90	68	79	1	68	71	0	14	RA BR			0.60	28.99	29.90	0.4	28	2.0	18	06	10	07	28		
29	89	69	79	1	70	72	0	14	FG+ FG BR			0.00	29.00	29.92	1.1	21	2.4	13	19	8	25	29		
30	90	73	82	4	70	72	0	17	RA			0.01	28.96	29.88	1.4	24	2.7		9	20	30			
31	88	72	80	3	70	73	0	15	RA BR			0.01	28.89	29.81	1.6	22	3.0	25	22	9	19	31		

88.6			66.4			77.5			☼	63.9			68.3			0.0		12.7		< MONTHLY AVERAGES TOTALS >				4.90				29.08		30.00		0.6		23		2.2		< MONTHLY AVERAGES																					
0.5			0.0			0.2				<----- DEPARTURE FROM NORMAL ----->												-0.26				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																	
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.57 DATE : 26										SEA LEVEL PRESSURE																																							
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :					30.19					16					1101																								
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :					29.74					31					1807																								
HEATING :					0					0					NUMBER OF ->					MAXIMUM TEMP >= 90 :					16					MINIMUM TEMP <= 32 :					0					PRECIPITATION >= 0.01 INCH :					12														
COOLING :					395					15					866					116					THUNDERSTORMS :					0					MINIMUM TEMP <= 0 :					0					PRECIPITATION >= 0.10 INCH :					7									

JULY 2008
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
JULY 2008

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													03												03	0.00	0.00	
04													04												04	0.02	0.02	
05				0.01	T	0.06	0.15	0.09	0.01	T			05						T	0.02				05	0.32	0.32		
06													06												06	0.00	0.00	
07													07						T						07	T	T	
08													08	T	T	T								0.28	0.07	0.8	0.35	0.35
09						T							09	0.50	0.06						0.03	0.01	0.01		09	0.61	0.61	
10								T	0.01	0.09	0.38	0.08	T	10		T	0.05	T						10	0.61	0.61		
11														11											11	0.00	0.00	
12														12				0.05	0.04	T				12	0.09	0.09		
13							0.04	0.48	0.10	0.06	0.01			13		T	T						T	13	0.69	0.69		
14														14										14	0.00	0.00		
15														15										15	0.00	0.00		
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				T	T	T				21	T	T		
22														22				T	0.02					22	0.02	0.02		
23														23	T	T								23	T	T		
24														24										24	0.00	0.00		
25														25			T							25	T	T		
26		0.01	0.16	0.18	0.35	0.20	0.25	0.40	0.02					26										26	1.57	1.57		
27														27										27	0.00	0.00		
28														28		T	T	T	T	0.26	0.30	0.04	T	28	0.60	0.60		
29														29										29	0.00	0.00		
30														30			0.01	T						30	0.01	0.01		
31								T	0.01				31											31	0.01	0.01		

* 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)	0.22	0.35	0.46	0.54	0.56	0.56	0.57	0.61	0.65	0.66	0.81	0.97
Ending Date	08	09	09	09	09	09	26	26	26	26	26	26
Ending Time (Hr/Min)	2258	1256	1301	1301	1303	1303	0734	0736	0736	0736	0734	0736

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.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy '' = Moderate '-' = Light

OAK RIDGE, TN JULY 2008

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).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. 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.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

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	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							10.00	10.00	
02							10.00	10.00	
03							5.00	10.00	
04							6.00	10.00	
05							2.50	10.00	
06							7.00	10.00	
07							10.00	10.00	
08							1.75	10.00	
09							0.50	10.00	
10							1.00	10.00	
11							0.25	10.00	
12							3.00	10.00	
13							0.50	10.00	
14							6.00	10.00	
15							10.00	10.00	
16							8.00	10.00	
17							4.00	10.00	
18							3.00	10.00	
19							3.00	9.00	
20							2.00	10.00	
21							3.00	10.00	
22							8.00	10.00	
23							6.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							1.00	10.00	
27							0.75	10.00	
28							1.00	10.00	
29							0.25	10.00	
30							7.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							4.73	9.97	
SUNSHINE (Minutes)									
Total : 0					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
2		15			10				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JULY 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL		
SUNRISE: 0524						JUL 01						SUNSET: 1958																	
01	CLR	NC			10.00		59	53	56	81	0	00	29.10	30.04	01	CLR	NC			10.00		70	63	66	79	0	00	29.10	30.02
04	CLR	NC			10.00		55	52	53	90	0	00	29.10	30.05	04	CLR	NC			10.00		67	61	63	81	0	00	29.10	30.03
07	CLR	NC			10.00		59	53	56	81	0	00	29.14	30.09	07	CLR	NC			10.00		70	62	65	76	0	00	29.13	30.06
10	CLR	NC			10.00		74	52	61	46	3	VR	29.15	30.09	10	CLR	NC			10.00		81	67	72	63	6	20	29.15	30.07
13	SCT	090			10.00		82	49	63	32	5	VR	29.13	30.07	13	SCT	055			10.00		86	63	71	46	6	VR	29.13	30.06
16	CLR	NC			10.00		83	48	63	30	6	25	29.10	30.03	16	SCT	110			10.00		88	63	71	43	6	21	29.10	30.02
19	CLR	NC			10.00		81	46	61	29	3	32	29.08	30.02	19	FEW	055			10.00		80	71	74	74	3	VR	29.10	30.03
22	CLR	NC			10.00		67	54	60	63	0	00	29.13	30.06	22	CLR	NC			10.00		73	63	67	71	0	00	29.13	30.06
SUNRISE: 0524						JUL 02						SUNSET: 1958																	
01	CLR	NC			10.00		61	54	57	78	0	00	29.14	30.08	01	BKN	120			10.00		72	63	66	73	0	00	29.14	30.07
04	CLR	NC			10.00		58	54	56	87	0	00	29.13	30.08	04	FEW	065			10.00		70	64	66	81	0	00	29.13	30.05
07	CLR	NC			10.00		59	54	56	84	0	00	29.18	30.12	07	CLR	NC			10.00		71	64	67	79	0	00	29.14	30.07
10	CLR	NC			10.00		75	56	64	52	0	00	29.19	30.13	10	CLR	NC			10.00		82	67	72	61	6	VR	29.15	30.08
13	SCT	070			10.00		84	52	65	33	7	VR	29.15	30.09	13	FEW	048			10.00		82	68	73	63	11	28	29.12	30.04
16	SCT	075			10.00		85	50	64	30	5	VR	29.10	30.03	16	CLR	NC			10.00		84	68	73	59	0	00	29.07	29.99
19	CLR	NC			10.00		83	51	64	33	6	21	29.10	30.03	19	CLR	NC			10.00		87	71	76	59	0	00	29.04	29.95
22	CLR	NC			10.00		74	56	63	54	0	00	29.10	30.04	22	FEW	060			10.00		81	65	70	58	0	00	29.10	30.02
SUNRISE: 0525						JUL 03						SUNSET: 1958																	
01	CLR	NC			10.00		64	57	60	78	0	00	29.12	30.04	01	SCT	060			8.00		72	69	70	90	0	00	29.10	30.03
04	CLR	NC			8.00		61	56	58	84	0	00	29.10	30.04	04	SCT	050			7.00		72	68	69	87	3	22	29.10	30.02
07	CLR	NC			7.00		63	57	60	81	0	00	29.14	30.08	07	FEW	039			6.00	HZ	74	68	70	82	0	00	29.12	30.03
10	CLR	NC			10.00		78	56	65	47	6	26	29.15	30.09	10	BKN	019			8.00		80	69	73	69	6	26	29.12	30.03
13	CLR	NC			10.00		87	56	68	35	8	22	29.13	30.06	13	OVC	050			0.50	+RA	73	68	70	84	10	23	29.13	30.07
16	CLR	NC			10.00		89	52	66	28	8	26	29.08	30.00	16	CLR	NC			10.00		80	68	72	67	3	21	29.07	30.00
19	CLR	NC			10.00		86	55	67	35	5	20	29.06	29.99	19	CLR	NC			10.00		79	69	72	72	5	22	29.08	30.00
22	CLR	NC			10.00		77	60	66	56	0	00	29.10	30.02	22	SCT	060			10.00	-RA	73	69	70	87	3	24	29.13	30.05
SUNRISE: 0525						JUL 04						SUNSET: 1957																	
01	CLR	NC			10.00		73	62	66	69	0	00	29.09	30.01	01	CLR	NC			10.00		71	68	69	90	0	00	29.12	30.05
04	BKN	090			10.00		73	62	66	69	0	00	29.08	29.99	04	OVC	006			10.00		71	68	69	90	0	00	29.10	30.03
07	FEW	095			8.00		72	62	66	71	3	25	29.10	30.02	07	OVC	003			2.50	-RA BR	71	69	70	93	0	00	29.13	30.07
10	FEW	080			9.00		80	64	70	58	5	VR	29.12	30.04	10	OVC	029			1.00	+RA BR	69	67	68	93	0	00	29.16	30.10
13	FEW	060			10.00		88	62	71	42	6	VR	29.08	29.99	13	OVC	010			10.00		75	69	71	82	0	00	29.15	30.09
16	CLR	NC			10.00		88	61	70	40	6	28	29.01	29.93	16	OVC	023			7.00	-RA	77	70	72	79	3	02	29.09	30.02
19	BKN	075			10.00		82	62	69	51	15	26	29.05	29.97	19	OVC	047			10.00		76	70	72	82	0	00	29.10	30.03
22	CLR	NC			8.00		70	65	67	84	0	00	29.07	30.00	22	BKN	065			10.00		74	70	71	87	0	00	29.13	30.07
SUNRISE: 0526						JUL 05						SUNSET: 1957																	
01	OVC	110			8.00		70	65	67	84	0	00	29.07	29.99	01	CLR	NC			10.00		72	69	70	90	0	00	29.13	30.06
04	OVC	110			4.00	BR	69	66	67	90	3	15	29.04	29.96	04	OVC	005			0.25	FG	70	68	69	93	0	00	29.12	30.05
07	OVC	060			2.50	-RA BR	69	66	67	90	0	00	29.08	30.00	07	OVC	003			6.00	BR	69	67	68	93	0	00	29.15	30.09
10	OVC	038			7.00		72	68	69	87	5	VR	29.08	30.01	10	FEW	016			10.00		79	68	72	69	6	VR	29.18	30.11
13	SCT	034			10.00		81	65	70	58	5	19	29.07	29.99	13	CLR	NC			10.00		86	64	71	48	0	00	29.17	30.09
16	CLR	NC			10.00		85	62	70	46	3	VR	29.00	29.92	16	CLR	NC			10.00		90	58	69	34	5	02	29.13	30.05
19	FEW	085			10.00		78	65	70	64	3	35	29.00	29.93	19	CLR	NC			10.00		86	58	68	39	5	07	29.12	30.04
22	CLR	NC			10.00		71	67	68	87	0	00	29.06	29.99	22	CLR	NC			10.00		73	64	67	74	0	00	29.17	30.10
SUNRISE: 0526						JUL 06						SUNSET: 1957																	
01	CLR	NC			10.00		69	66	67	90	0	00	29.04	29.97	01	CLR	NC			10.00		68	63	65	84	0	00	29.16	30.09
04	OVC	050			10.00		69	65	66	87	0	00	29.05	29.97	04	CLR	NC			10.00		67	63	65	87	0	00	29.14	30.07
07	BKN	070			8.00		68	65	66	90	0	00	29.09	30.01	07	CLR	NC			10.00		69	64	66	84	0	00	29.17	30.10
10	BKN	025			10.00		78	65	70	64	3	21	29.09	30.02	10	SCT	060			10.00		81	67	72	63	0	00	29.17	30.10
13	FEW	036			10.00		85	65	72	51	7	VR	29.07	29.99	13	CLR	NC			10.00		89	67	74	48	6	18	29.12	30.03
16	SCT	060			10.00		89	60	70	38	7	24	29.02	29.94	16	SCT	075			10.00		82	65	71	56	9	26	29.10	30.03
19	BKN	085			10.00		88	61	70	40	3	23	29.02	29.94	19	CLR	NC			8.00		76	71	73	85	3	24	29.07	30.00
22	CLR	NC			10.00		77	63	68	62	0	00	29.08	30.00	22	CLR	NC			9.00		75	71	72	87	0	00	29.09	30.01

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JULY 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	Observation Time (LST)			Eff Cld Amt Oktas	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0530						JUL 13						SUNSET: 1955																	
01	BKN	075			7.00		72	70	71	93	0 00	29.03	29.95	01	CLR	NC			7.00		68	62	64	81	0 00	29.10	30.03		
04	FEW	060			8.00		72	69	70	90	0 00	28.98	29.90	04	CLR	NC			6.00	BR	65	61	63	87	0 00	29.10	30.03		
07	OVC	002			4.00	BR	73	71	72	93	0 00	29.00	29.93	07	CLR	NC			3.00	BR	65	61	63	87	0 00	29.13	30.06		
10	OVC	016			10.00	-RA	73	70	71	90	3 VR	29.02	29.95	10	CLR	NC			9.00		79	63	69	58	0 00	29.15	30.08		
13	OVC	031			10.00		78	69	72	74	6 VR	28.95	29.88	13	FEW	055			9.00		89	62	71	41	7 27	29.13	30.06		
16	FEW	015			10.00		80	70	73	72	7 24	28.91	29.83	16	CLR	NC			8.00		90	60	70	37	7 VR	29.09	30.01		
19	BKN	045			10.00		80	67	71	65	3 35	28.91	29.83	19	CLR	NC			8.00		86	62	70	45	3 23	29.07	30.00		
22	BKN	065			10.00		74	69	71	84	0 00	28.96	29.89	22	CLR	NC			7.00		77	67	70	71	0 00	29.10	30.02		
SUNRISE: 0531						JUL 14						SUNSET: 1955																	
01	FEW	055			7.00		71	68	69	90	0 00	28.97	29.90	01	CLR	NC			4.00	BR	71	67	68	87	0 00	29.10	30.02		
04	OVC	060			8.00		67	65	66	93	0 00	28.97	29.90	04	CLR	NC			4.00	BR	69	65	66	87	0 00	29.12	30.03		
07	CLR	NC			10.00		67	62	64	84	0 00	29.02	29.95	07	CLR	NC			2.00	BR	69	65	66	87	0 00	29.14	30.07		
10	CLR	NC			10.00		78	56	65	47	6 06	29.03	29.95	10	CLR	NC			5.00	HZ	83	67	72	59	3 VR	29.14	30.06		
13	FEW	060			10.00		82	55	65	40	6 VR	29.02	29.94	13	FEW	090			8.00		89	66	73	47	0 00	29.13	30.05		
16	FEW	060			10.00		84	56	67	38	0 00	29.00	29.92	16	CLR	NC			10.00		88	68	74	52	3 19	29.09	30.01		
19	FEW	065			10.00		81	58	67	46	0 00	29.01	29.93	19	CLR	NC			9.00		87	70	75	57	6 24	29.07	29.99		
22	CLR	NC			10.00		69	60	64	73	0 00	29.06	29.99	22	CLR	NC			8.00		81	70	74	69	0 00	29.09	30.00		
SUNRISE: 0532						JUL 15						SUNSET: 1954																	
01	CLR	NC			10.00		64	59	61	84	0 00	29.08	30.01	01	CLR	NC			7.00		78	70	73	77	0 00	29.07	29.98		
04	CLR	NC			10.00		62	58	60	87	0 00	29.09	30.02	04	CLR	NC			5.00	BR	74	70	71	87	3 22	29.05	29.97		
07	CLR	NC			10.00		64	59	61	84	3 08	29.13	30.06	07	CLR	NC			3.00	HZ	75	70	72	85	0 00	29.08	30.00		
10	CLR	NC			10.00		78	58	66	50	6 VR	29.17	30.11	10	CLR	NC			7.00		86	71	76	61	5 VR	29.09	30.00		
13	CLR	NC			10.00		83	54	65	37	7 05	29.16	30.10	13	BKN	055			9.00		91	70	76	50	5 12	29.06	29.96		
16	CLR	NC			10.00		86	52	65	31	5 VR	29.13	30.07	16	CLR	NC			10.00		96	68	76	40	5 VR	29.02	29.93		
19	CLR	NC			10.00		82	57	66	43	3 VR	29.13	30.07	19	CLR	NC			10.00		74	63	67	69	5 26	29.05	29.98		
22	CLR	NC			10.00		71	61	65	71	0 00	29.17	30.11	22	CLR	NC			10.00		73	64	67	74	3 23	29.07	29.99		
SUNRISE: 0532						JUL 16						SUNSET: 1954																	
01	CLR	NC			10.00		66	60	62	81	0 00	29.18	30.12	01	CLR	NC			10.00		70	64	66	81	3 22	29.08	30.00		
04	CLR	NC			10.00		64	60	62	87	0 00	29.19	30.12	04	CLR	NC			10.00		69	64	66	84	0 00	29.09	30.00		
07	CLR	NC			10.00		66	60	62	81	0 00	29.23	30.17	07	CLR	NC			10.00		71	64	67	79	0 00	29.09	30.02		
10	BKN	060			10.00		77	59	66	54	6 07	29.25	30.19	10	CLR	NC			10.00		80	64	70	58	3 VR	29.08	30.01		
13	CLR	NC			10.00		86	56	67	36	3 VR	29.23	30.16	13	CLR	NC			10.00		87	67	73	52	0 00	29.06	29.98		
16	CLR	NC			10.00		88	53	67	30	6 06	29.18	30.11	16	SCT	080			10.00		88	66	73	48	7 27	29.02	29.93		
19	CLR	NC			10.00		85	58	68	40	0 00	29.16	30.10	19	CLR	NC			10.00		74	67	69	79	0 00	29.05	29.98		
22	CLR	NC			10.00		74	62	66	66	0 00	29.20	30.14	22	CLR	NC			10.00		72	66	68	82	0 00	29.07	30.00		
SUNRISE: 0533						JUL 17						SUNSET: 1953																	
01	FEW	090			10.00		70	62	65	76	3 05	29.20	30.13	01	CLR	NC			10.00		70	66	67	87	0 00	29.07	29.98		
04	CLR	NC			8.00		67	62	64	84	0 00	29.19	30.12	04	OVC	090			9.00		70	66	67	87	0 00	29.05	29.97		
07	CLR	NC			5.00	HZ	67	62	64	84	0 00	29.23	30.16	07	BKN	030			6.00	BR	70	66	67	87	0 00	29.07	30.00		
10	SCT	065			10.00		81	63	69	54	5 01	29.24	30.17	10	OVC	012			8.00		74	67	69	79	5 21	29.08	30.01		
13	FEW	055			10.00		87	62	71	43	0 00	29.20	30.13	13	CLR	NC			10.00		84	66	72	55	0 00	29.04	29.96		
16	CLR	NC			10.00		89	53	67	29	6 VR	29.15	30.08	16	FEW	080			10.00		87	61	70	42	7 VR	29.01	29.93		
19	CLR	NC			10.00		86	58	68	39	0 00	29.13	30.05	19	CLR	NC			10.00		83	54	65	37	3 35	29.02	29.94		
22	CLR	NC			10.00		73	62	66	69	0 00	29.13	30.06	22	CLR	NC			10.00		71	59	64	66	0 00	29.08	30.01		
SUNRISE: 0534						JUL 18						SUNSET: 1953																	
01	CLR	NC			8.00		68	61	64	78	0 00	29.13	30.05	01	CLR	NC			10.00		66	58	61	76	0 00	29.09	30.02		
04	CLR	NC			5.00	BR	64	61	62	90	0 00	29.13	30.06	04	CLR	NC			10.00		61	57	59	87	0 00	29.10	30.03		
07	CLR	NC			4.00	BR	65	61	63	87	0 00	29.17	30.10	07	CLR	NC			10.00		63	58	60	84	0 00	29.13	30.06		
10	CLR	NC			9.00		79	62	68	56	0 00	29.17	30.10	10	CLR	NC			10.00		78	58	66	50	5 VR	29.16	30.09		
13	BKN	060			10.00		86	59	69	40	3 VR	29.13	30.06	13	CLR	NC			10.00		83	53	65	36	5 VR	29.13	30.06		
16	FEW	070			10.00		90	57	69	33	5 34	29.10	30.03	16	CLR	NC			10.00		83	53	65	36	5 02	29.12	30.05		
19	CLR	NC			10.00		86	59	69	40	0 00	29.09	30.01	19	CLR	NC			10.00		79	57	65	47	0 00	29.12	30.06		
22	CLR	NC			8.00		74	63	67	69	0 00	29.10	30.03	22	CLR	NC			10.00		73	60	65	64	0 00	29.14	30.08		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JULY 2008

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
SUNRISE: 0539						JUL 25						SUNSET: 1948					
01	SCT	110				72	61	65	68	0	00	29.13	30.06				
04	OVC	090				70	62	65	76	0	00	29.14	30.07				
07	OVC	075				71	63	66	76	0	00	29.17	30.11				
10	OVC	070				77	63	68	62	3	17	29.17	30.11				
13	OVC	050				81	59	67	47	0	00	29.18	30.11				
16	CLR	NC				80	62	68	54	6	21	29.14	30.07				
19	CLR	NC				79	65	70	62	6	VR	29.13	30.06				
22	SCT	055				76	67	70	74	0	00	29.13	30.06				
SUNRISE: 0539						JUL 26						SUNSET: 1948					
01	BKN	080				74	67	69	79	0	00	29.12	30.04				
04	OVC	055			-RA BR	71	69	70	93	0	00	29.10	30.03				
07	OVC	006			+RA BR	71	69	70	93	0	00	29.10	30.02				
10	OVC	009			BR	74	70	71	87	3	VR	29.10	30.02				
13	BKN	022				80	71	74	74	5	20	29.07	29.99				
16	BKN	027			HZ	84	70	74	63	3	21	29.01	29.93				
19	BKN	055				83	71	75	67	5	22	28.99	29.91				
22	CLR	NC				77	71	73	82	0	00	29.00	29.93				
SUNRISE: 0540						JUL 27						SUNSET: 1947					
01	CLR	NC				74	70	71	87	0	00	28.99	29.91				
04	OVC	001			BR	72	70	71	93	3	21	28.99	29.91				
07	OVC	003			BR	71	69	70	93	0	00	29.01	29.93				
10	FEW	015				81	71	74	72	0	00	29.02	29.94				
13	BKN	040				88	70	75	55	7	VR	28.99	29.90				
16	BKN	055				90	68	75	48	6	VR	28.94	29.86				
19	CLR	NC				89	64	72	44	5	31	28.94	29.86				
22	CLR	NC				76	67	70	74	0	00	28.97	29.88				
SUNRISE: 0541						JUL 28						SUNSET: 1946					
01	CLR	NC				71	67	68	87	0	00	28.97	29.88				
04	CLR	NC			BR	69	66	67	90	0	00	28.97	29.88				
07	CLR	NC			BR	69	65	66	87	0	00	28.99	29.91				
10	CLR	NC				81	67	72	63	0	00	29.00	29.91				
13	CLR	NC				89	68	75	50	5	23	28.97	29.88				
16	CLR	NC				87	71	76	59	7	27	28.94	29.86				
19	OVC	080			-RA BR	73	70	71	90	3	07	28.98	29.91				
22	CLR	NC			BR	72	70	71	93	0	00	29.02	29.94				
SUNRISE: 0542						JUL 29						SUNSET: 1945					
01	OVC	005			FG	70	68	69	93	0	00	29.01	29.92				
04	VV	001			FG	69	68	68	97	0	00	29.00	29.92				
07	OVC	001			BR	69	68	68	97	0	00	29.02	29.96				
10	BKN	055				76	69	71	79	0	00	29.04	29.97				
13	SCT	024				86	73	77	65	3	21	29.00	29.92				
16	CLR	NC				88	70	75	55	3	VR	28.96	29.88				
19	CLR	NC				85	70	75	61	5	21	28.94	29.86				
22	CLR	NC				80	72	74	77	3	VR	29.00	29.92				
SUNRISE: 0542						JUL 30						SUNSET: 1945					
01	CLR	NC				76	70	72	82	3	26	28.98	29.89				
04	CLR	NC				73	70	71	90	0	00	28.96	29.88				
07	OVC	007				74	70	71	87	3	VR	28.99	29.91				
10	FEW	016				81	70	73	69	6	VR	29.01	29.93				
13	FEW	036				88	70	75	55	3	VR	28.95	29.86				
16	CLR	NC				76	69	71	79	5	25	28.92	29.85				
19	FEW	070				78	69	72	74	0	00	28.94	29.86				
22	CLR	NC				76	70	72	82	0	00	28.93	29.85				

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL			
SUNRISE: 0543						JUL 31						SUNSET: 1944					
01	CLR	NC				74	70	71	87	0	00	28.91	29.82				
04	CLR	NC				73	69	70	87	0	00	28.88	29.81				
07	OVC	016			BR	73	70	71	90	3	22	28.91	29.83				
10	BKN	050				79	71	74	77	5	22	28.92	29.84				
13	BKN	060				84	68	73	59	3	VR	28.90	29.82				
16	BKN	049				86	69	74	57	5	VR	28.84	29.75				
19	OVC	080				81	72	75	74	3	VR	28.86	29.78				
22	CLR	NC				77	72	74	85	0	00	28.91	29.83				

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.

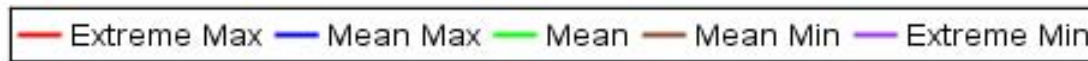
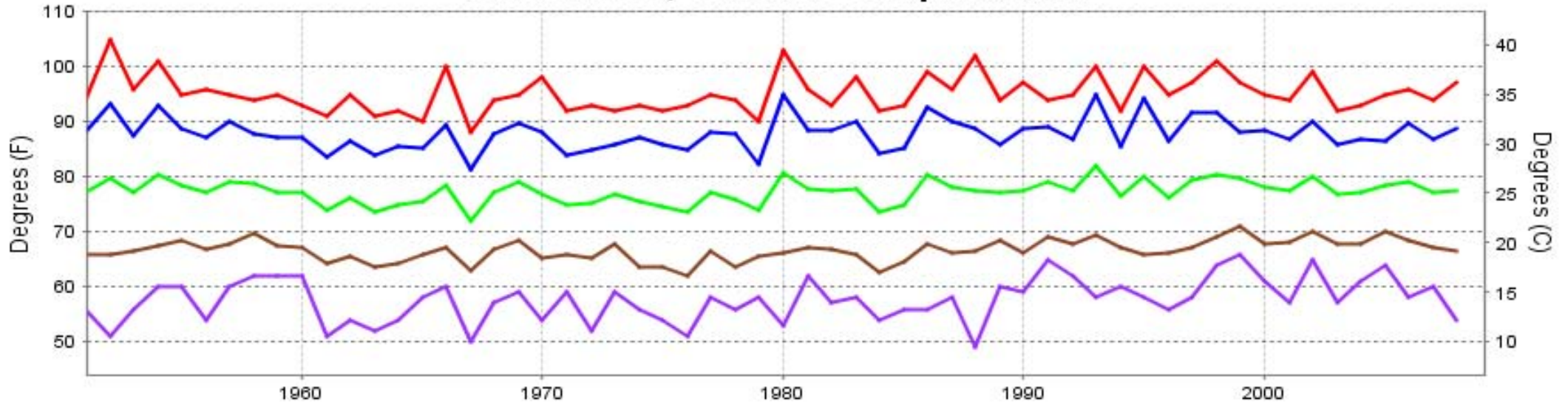
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

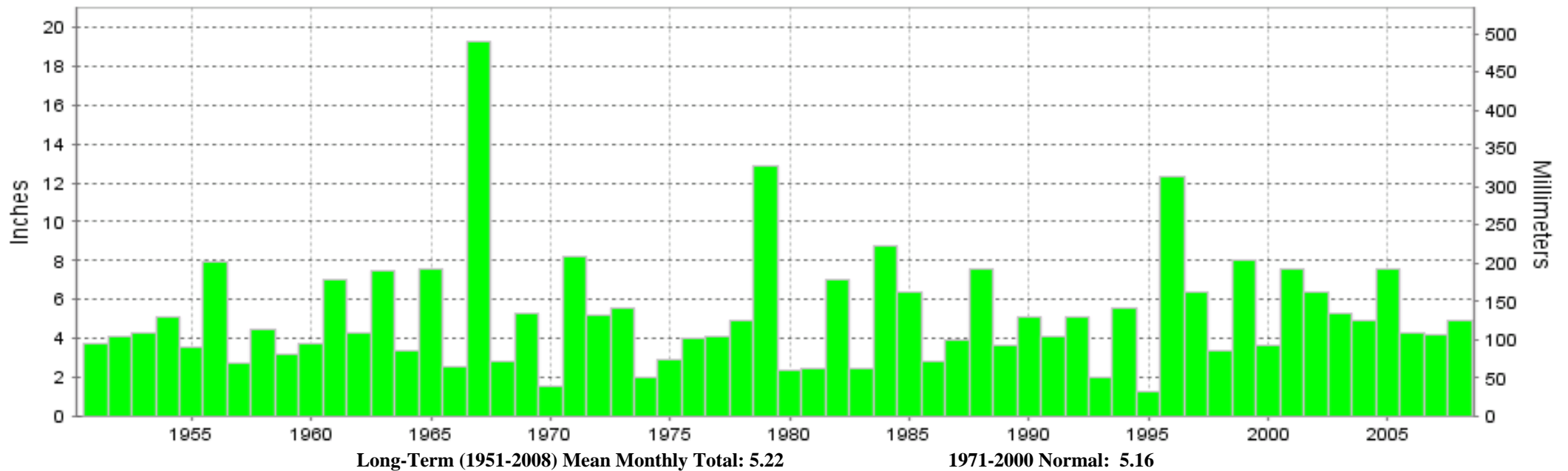
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			70	64	66	83	29.08	30.01	8.88	0	xxx	xx
02			69	64	66	85	29.07	30.00	8.36	1	xxx	xx
03			68	64	66	86	29.07	30.00	7.90	0	xxx	xx
04			68	64	65	87	29.07	30.00	7.49	0	2	21
05			67	64	65	88	29.08	30.01	7.29	0	2	20
06			67	63	65	88	29.09	30.02	6.46	1	2	21
07			69	64	66	85	29.10	30.03	6.46	0	xxx	xx
08			72	65	67	79	29.11	30.04	7.61	1	2	22
09			75	65	69	71	29.11	30.05	8.81	3	1	21
10			78	65	70	64	29.11	30.04	8.90	4	1	23
11			81	65	70	59	29.11	30.04	9.55	5	1	23
12			84	64	71	53	29.10	30.03	9.71	5	1	22
13			84	63	71	51	29.09	30.01	9.53	4	2	25
14			85	63	71	49	29.07	29.99	9.65	5	1	22
15			86	62	71	48	29.05	29.98	9.68	4	2	25
16			86	62	70	47	29.05	29.97	9.68	5	3	26
17			85	62	70	49	29.04	29.97	9.29	5	2	26
18			84	62	70	52	29.04	29.97	9.68	4	2	24
19			82	63	70	56	29.05	29.97	9.71	3	2	26
20			79	64	69	62	29.05	29.98	9.29	1	1	23
21			76	65	69	70	29.06	29.99	9.74	1	2	24
22			74	65	68	74	29.08	30.00	9.52	0	xxx	xx
23			73	65	68	78	29.08	30.01	9.09	1	4	24
24			71	65	67	81	29.08	30.00	9.06	0	xxx	xx

OAK RIDGE, TN JULY Temperatures



Long-Term (1951-2008) Mean: 77.3
 1971-2000 Normal: 77.3

OAK RIDGE, TN JULY Precipitation



Long-Term (1951-2008) Mean Monthly Total: 5.22

1971-2000 Normal: 5.16



**JULY 2008
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.

Thomas R. Karl
DIRECTOR

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