



DECEMBER 2015 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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			
2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23				
01	62	58	60	17	58	59	5	0	RA BR			1.96	28.99	29.96	1.8	23	3.2	22	16	15	16	01		
02	58	45	52	9	43	48	13	0	RA BR			0.43	28.93	29.92	2.7	26	4.5	19	26	12	31	02		
03	48	33	41	-1	27	35	24	0				0.00	29.31	30.31	2.5	06	4.4	15	06	12	08	03		
04	54	30	42	0	29	36	23	0				0.00	29.54	30.56	2.6	07	2.9	14	05	12	07	04		
05	59	29	44	2	30	36	21	0				0.00	29.60	30.62	0.3	04	1.1	9	12	7	09	05		
06	58	30	44	3	33	38	21	0	FG+ FG FZFG BR			0.00	29.49	30.47			0.3	9	20	7	20	06		
07	59	39	49	8	38	43	16	0				0.00	29.24	30.23	0.4	27	1.5	19	26	13	28	07		
08	59	32	46	5	35	39	19	0	FG+ FG BR			0.00	29.16	30.15	0.6	20	1.1	12	19	8	19	08		
09	56	34	45	4	39	42	20	0	RA BR			T	29.03	30.03	1.6	23	2.5	13	25	8	27	09		
10	63	42	53	13	47	49	12	0	FG+ FG BR			0.00	29.00	29.98	0.7	23	1.5	11	27	7	25	10		
11	71	53	62	22	55	58	3	0	BR HZ			0.00	29.02	30.00	2.0	23	2.7	14	21	8	23	11		
12	70	54	62	22	57	59	3	0				0.00	29.21	30.18	0.7	24	2.9	14	26	9	26	12		
13	70	51	61	21	52	54	4	0	BR			0.00	29.13	30.07	0.3	19	0.3	8	19	7	19	13		
14	71	51	61	21	51	56	4	0	RA BR			0.40	28.76	29.71	6.5	21	7.5	33*	26	20*	25	14		
15	66	44	55	16	44	49	10	0				0.00	28.94	29.93	1.4	20	2.3	13	22	8	26	15		
16	66	39	53	14	44	47	12	0	FG+ BR			0.00	28.97	29.94	0.6	26	0.8	13	26	9	27	16		
17	56	42	49	10	49	50	16	0	RA BR			0.89	28.86	29.84	0.1	23	0.1	9	26	7	26	17		
18	42	28	35*	-4	27	32	30	0	SN			T	29.12	30.17	2.5	26	3.2	18	27	12	26	18		
19	48	24*	36	-3	24	30	29	0				0.00	29.46	30.51	1.0	20	2.3	17	21	10	21	19		
20	50	27	39	1	28	34	26	0				0.00	29.47	30.49	0.3	25	0.6	7	22	5	23	20		
21	54	41	48	10	41	45	17	0	RA BR			0.10	29.25	30.22	1.7	21	3.0	15	26	8	24	21		
22	61	53	57	19	55	55	8	0	RA FG+ FG BR			0.30	29.00	29.96	1.0	25	1.4	13	24	7	23	22		
23	63	56	60	22	58	59	5	0	RA BR			0.36	28.87	29.81	0.4	23	1.0	9	25	6	27	23		
24	75	60	68	30	60	62	0	3	RA FG+ FG BR			0.65	28.99	29.98	0.5	19	1.3	15	18	10	16	24		
25	67	61	64	26	61	62	1	0	RA FG BR			2.28	29.18	30.15	1.6	22	3.1	28	30	17	28	25		
26	74	61	68*	31	61	63	0	3	RA			0.04	29.23	30.18	0.7	21	1.6	13	28	8	21	26		
27	76*	58	67	30	62	64	0	2	RA FG BR			0.02	29.10	30.04	1.5	21	3.1	24	19	16	20	27		
28	71	58	65	28	61	62	0	0	RA FG+ FG BR			0.99	28.93	29.85	1.0	18	2.4	22	22	14	21	28		
29	68	50	59	22	50	55	6	0				0.00	29.00	30.00	2.8	24	5.2	28	20	14	23	29		
30	56	49	53	16	49	51	12	0	RA BR			0.14	29.18	30.17	0.8	22	1.1	12	26	8	25	30		
31	52	39	46	9	40	44	19	0				0.00	29.24	30.25	1.8	07	2.6	12	07	9	07	31		

61.4	44.2	52.8	☼	45.4	48.9	12.2	0.3	< MONTHLY AVERAGES TOTALS >				8.56	29.13	30.11	0.9	22	2.3	< MONTHLY AVERAGES			
11.8	13.1	12.5		-----DEPARTURE FROM NORMAL ----->				3.70	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 2.28 DATE : 25				SEA LEVEL PRESSURE					
MONTHLY				GREATEST 24-HR SNOWFALL :				DATE TIME					
SEASON TO DATE				GREATEST SNOW DEPTH :				MAXIMUM : 30.69 05 1005					
TOTAL DEPARTURE		TOTAL DEPARTURE		NUMBER OF -> DAYS WITH				MINIMUM : 29.61 14 1544		PRECIPITATION >= 0.01 INCH: 13			
HEATING :	379	-385	850	-617	MAXIMUM TEMP >= 90 :	0	MINIMUM TEMP <= 32 :	7	PRECIPITATION >= 0.10 INCH: 11				
COOLING :	8	8	1807	325	THUNDERSTORMS :	0	HEAVY FOG :	7	SNOWFALL >= 1.0 INCH :				

DECEMBER 2015
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
DECEMBER 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	0.14	0.09	0.07	T		T	0.03	0.01	0.01	0.03	0.10	0.07	01	0.01	T	0.02	0.11	0.20	0.19	0.07	0.17	0.21	0.21	0.04	0.18	01	1.96	1.96
02	0.05	0.18	0.02	0.10	0.04	0.04	T						02													02	0.43	0.43
03													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													09		T											09	T	T
10													10							T						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	0.02												14	0.40	0.40
15													15													15	0.00	0.00
16													16													16	0.00	0.00
17	0.01	0.07	0.10	0.19	0.12	0.05	0.06	0.05	0.12	0.07	0.02	0.03	17													17	0.89	0.89
18													18							T						18	T	T
19													19													19	0.00	0.00
20													20													20	0.00	0.00
21													21													21	0.10	0.10
22	0.06	0.13	0.10		T	T	0.01		T	T	0.03	T	22			T					T	T	0.03	0.03	0.01	22	0.30	0.30
23			0.01	T	0.02	0.04	0.03	0.01	T				23		T	0.03	T	T			0.03	T	T	0.04	0.15	23	0.36	0.36
24	0.14	0.28	0.18	0.05									24													24	0.65	0.65
25						0.02		0.02	0.10	0.11	0.06	0.75	25	0.23	0.28	0.21	0.12	0.02	0.08	0.10	0.09	0.08	0.01		25	2.28	2.28	
26	T						0.01	0.03	T	T	T		26													26	0.04	0.04
27													27			0.02	T									27	0.02	0.02
28						T	0.05	0.02					28			T	0.06	0.14	0.42	0.30					28	0.99	0.99	
29													29													29	0.00	0.00
30											T	0.01	0.06	30	0.07	T									30	0.14	0.14	
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)	0.31	0.47	0.56	0.61	0.65	0.70	0.76	0.84	0.92	1.00	1.13	1.26
Ending Date	25	25	25	25	25	25	25	25	25	25	25	25
Ending Time (Hr/Min)	1108	1112	1116	1119	1126	1146	1157	1219	1237	1254	1327	1359

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 DECEMBER 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	1.75	10.00
02	1.00	10.00
03	10.00	10.00
04	10.00	10.00
05	10.00	10.00
06	0.00	10.00
07	10.00	10.00
08	0.00	10.00
09	2.00	10.00
10	0.00	10.00
11	4.00	10.00
12	7.00	10.00
13	5.00	10.00
14	2.00	10.00
15	10.00	10.00
16	0.00	10.00
17	1.75	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	6.00	10.00
22	0.50	10.00
23	1.25	10.00
24	0.25	10.00
25	0.50	10.00
26	10.00	10.00
27	0.50	10.00
28	0.25	10.00
29	10.00	10.00
30	2.50	10.00
31	10.00	10.00
AVGS	4.72	10.00
MINIMUM VISIBILITY (MILES)		
	<= .25	<= 3.0 >= 7.0
	6	16 12

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
DECEMBER 2015 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: 0729 DEC 01					SUNSET: 1723					SUNRISE: 0734 DEC 07					SUNSET: 1723										
01	OVC	040	2.00	RA BR	60	59	59	96	3	20	29.07	30.02	01	OVC	070	10.00		42	39	41	89	0	00	29.32	30.31
04	BKN	110	10.00		60	58	59	93	0	00	29.04	29.99	04	OVC	055	10.00		44	39	42	83	0	00	29.27	30.26
07	OVC	100	7.00	-RA	60	58	59	93	0	00	29.06	30.01	07	OVC	060	10.00		44	39	42	83	0	00	29.26	30.26
10	OVC	039	2.50	RA BR	61	58	59	90	3	VR	29.06	30.01	10	SCT	055	10.00		49	41	45	74	3	VR	29.26	30.26
13	OVC	049	10.00	-RA	61	58	59	90	8	20	28.99	29.94	13	SCT	047	10.00		57	39	48	51	9	27	29.22	30.20
16	OVC	025	1.75	+RA BR	61	59	60	93	3	25	28.96	29.91	16	BKN	048	10.00		59	36	48	42	0	00	29.19	30.17
19	OVC	085	5.00	RA BR	59	57	58	93	5	26	28.98	29.94	19	CLR	NC	10.00		47	38	43	71	0	00	29.22	30.22
22	OVC	040	5.00	RA BR	59	57	58	93	0	00	28.93	29.88	22	CLR	NC	10.00		41	37	39	86	0	00	29.21	30.21
SUNRISE: 0730 DEC 02					SUNSET: 1723					SUNRISE: 0735 DEC 08					SUNSET: 1723										
01	OVC	017	4.00	RA BR	57	56	56	96	0	00	28.90	29.86	01	CLR	NC	10.00		37	34	36	89	0	00	29.20	30.20
04	OVC	055	1.50	-RA BR	55	54	54	96	0	00	28.89	29.85	04	VV	001	0.25	FG	34	32	33	92	0	00	29.18	30.17
07	OVC	055	10.00		54	52	53	93	3	23	28.89	29.85	07	VV	002	0.25	FG	34	33	34	97	0	00	29.22	30.23
10	CLR	NC	10.00		53	46	49	77	5	26	28.94	29.90	10	VV	002	0.25	FG	37	36	37	96	0	00	29.22	30.22
13	SCT	024	10.00		54	45	49	72	3	VR	28.94	29.90	13	CLR	NC	10.00		55	40	48	57	3	VR	29.16	30.15
16	CLR	NC	10.00		54	34	45	47	8	28	28.92	29.89	16	CLR	NC	10.00		59	34	47	39	5	17	29.10	30.09
19	FEW	049	10.00		49	34	42	56	6	VR	29.00	29.97	19	CLR	NC	10.00		46	36	42	68	0	00	29.10	30.11
22	BKN	048	10.00		47	36	42	66	3	24	29.05	30.03	22	CLR	NC	10.00		39	34	37	82	0	00	29.10	30.10
SUNRISE: 0731 DEC 03					SUNSET: 1723					SUNRISE: 0736 DEC 09					SUNSET: 1723										
01	CLR	NC	10.00		43	28	37	56	5	33	29.13	30.11	01	CLR	NC	10.00		36	32	34	86	0	00	29.09	30.07
04	CLR	NC	10.00		36	29	33	76	0	00	29.18	30.18	04	CLR	NC	10.00		39	33	36	79	3	VR	29.08	30.06
07	CLR	NC	10.00		38	27	34	65	6	32	29.23	30.24	07	CLR	NC	10.00		34	31	33	89	0	00	29.09	30.09
10	FEW	027	10.00		41	29	36	62	5	07	29.32	30.32	10	BKN	050	10.00		41	37	39	86	0	00	29.07	30.07
13	CLR	NC	10.00		45	26	37	48	7	09	29.32	30.32	13	OVC	055	10.00		54	40	47	59	5	VR	29.00	29.98
16	CLR	NC	10.00		47	24	38	41	7	09	29.34	30.35	16	OVC	021	10.00		53	42	48	66	0	00	28.96	29.94
19	CLR	NC	10.00		41	27	35	57	6	05	29.40	30.41	19	OVC	050	10.00		53	47	50	80	5	21	29.01	30.00
22	CLR	NC	10.00		37	28	34	70	0	00	29.44	30.45	22	CLR	NC	5.00	BR	50	47	48	89	5	21	29.04	30.02
SUNRISE: 0731 DEC 04					SUNSET: 1723					SUNRISE: 0736 DEC 10					SUNSET: 1723										
01	CLR	NC	10.00		34	28	32	79	0	00	29.46	30.47	01	VV	002	0.25	FG	43	42	43	97	0	00	29.04	30.02
04	CLR	NC	10.00		32	28	30	85	0	00	29.49	30.50	04	VV	002	0.25	FG	42	41	42	96	0	00	29.03	30.01
07	CLR	NC	10.00		31	28	30	89	0	00	29.52	30.55	07	VV	002	0.50	FG	43	42	43	97	0	00	29.04	30.03
10	CLR	NC	10.00		41	31	37	67	6	05	29.58	30.60	10	VV	002	0.50	FG	47	45	46	93	3	VR	29.06	30.03
13	CLR	NC	10.00		52	28	42	40	6	VR	29.56	30.58	13	OVC	050	10.00		58	50	54	75	3	VR	29.01	29.98
16	CLR	NC	10.00		54	26	42	34	6	07	29.54	30.55	16	FEW	036	10.00		62	51	56	67	3	22	28.93	29.90
19	CLR	NC	10.00		42	31	37	65	0	00	29.55	30.58	19	SCT	046	10.00		56	52	54	87	0	00	28.96	29.94
22	CLR	NC	10.00		39	30	35	70	3	05	29.57	30.60	22	OVC	055	10.00		57	51	54	81	0	00	28.96	29.93
SUNRISE: 0732 DEC 05					SUNSET: 1723					SUNRISE: 0737 DEC 11					SUNSET: 1723										
01	CLR	NC	10.00		36	29	33	76	0	00	29.58	30.60	01	BKN	045	10.00		56	51	53	84	3	22	28.98	29.94
04	CLR	NC	10.00		31	28	30	89	0	00	29.60	30.61	04	OVC	046	9.00		56	52	54	87	0	00	28.99	29.94
07	CLR	NC	10.00		31	27	30	85	0	00	29.64	30.66	07	OVC	017	7.00		55	52	53	90	0	00	29.02	29.98
10	CLR	NC	10.00		41	33	38	73	0	00	29.66	30.69	10	OVC	007	5.00	BR	58	54	56	87	0	00	29.07	30.03
13	CLR	NC	10.00		54	29	43	38	3	VR	29.60	30.62	13	OVC	026	7.00		63	57	60	81	6	26	29.06	30.01
16	CLR	NC	10.00		58	30	45	35	5	07	29.56	30.58	16	SCT	029	10.00		70	58	63	66	5	VR	29.04	29.99
19	CLR	NC	10.00		43	33	39	68	0	00	29.57	30.60	19	SCT	065	10.00		66	58	61	75	3	22	29.07	30.02
22	CLR	NC	10.00		36	31	34	82	0	00	29.58	30.60	22	BKN	060	10.00		64	58	60	81	5	22	29.09	30.05
SUNRISE: 0733 DEC 06					SUNSET: 1723					SUNRISE: 0738 DEC 12					SUNSET: 1723										
01	CLR	NC	10.00		32	29	31	88	0	00	29.56	30.57	01	SCT	060	10.00		62	58	60	86	0	00	29.13	30.08
04	VV	002	0.50	FZFG	30	28	29	92	0	00	29.55	30.56	04	OVC	050	9.00		60	58	59	93	0	00	29.16	30.12
07	VV	002	0.25	FZFG	30	29	30	96	0	00	29.55	30.58	07	BKN	050	7.00		60	58	59	93	5	VR	29.21	30.17
10	VV	002	0.50	FG	35	34	35	96	0	00	29.55	30.58	10	OVC	012	10.00		64	59	61	84	6	VR	29.26	30.22
13	BKN	049	10.00		55	31	44	40	3	VR	29.47	30.48	13	OVC	049	10.00		69	58	62	68	3	VR	29.25	30.20
16	BKN	060	10.00		58	35	47	42	0	00	29.39	30.40	16	CLR	NC	10.00		69	56	61	63	5	VR	29.22	30.18
19	CLR	NC	10.00		46	39	43	77	0	00	29.34	30.36	19	CLR	NC	10.00		61	55	58	81	0	00	29.24	30.21
22	CLR	NC	10.00		40	36	38	86	0	00	29.33	30.35	22	CLR	NC	10.00		56	53	54	90	0	00	29.24	30.21

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2015

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: 0739 DEC 13					SUNSET: 1724					SUNRISE: 0742 DEC 19					SUNSET: 1726										
01	CLR	NC	6.00	BR	53	51	52	93	0	00	29.22	30.19	01	CLR	NC	10.00		27	23	26	85	0	00	29.36	30.39
04	CLR	NC	7.00		51	49	50	92	0	00	29.18	30.15	04	CLR	NC	10.00		25	22	24	88	0	00	29.40	30.43
07	CLR	NC	7.00		51	49	50	92	0	00	29.20	30.17	07	CLR	NC	10.00		25	21	24	85	0	00	29.46	30.50
10	CLR	NC	10.00		59	55	57	87	0	00	29.19	30.16	10	CLR	NC	10.00		34	24	30	67	6	VR	29.52	30.55
13	CLR	NC	10.00		65	54	59	68	3	17	29.10	30.07	13	CLR	NC	10.00		44	25	37	47	6	VR	29.50	30.53
16	CLR	NC	10.00		69	54	60	59	0	00	29.03	29.99	16	CLR	NC	10.00		47	25	38	42	7	20	29.49	30.51
19	CLR	NC	10.00		59	54	56	83	0	00	29.01	29.98	19	CLR	NC	10.00		38	27	34	65	0	00	29.52	30.55
22	CLR	NC	10.00		53	51	52	93	0	00	28.96	29.93	22	CLR	NC	10.00		31	26	29	82	0	00	29.55	30.58
SUNRISE: 0739 DEC 14					SUNSET: 1724					SUNRISE: 0743 DEC 20					SUNSET: 1726										
01	CLR	NC	9.00		52	49	50	89	0	00	28.89	29.84	01	CLR	NC	10.00		29	26	28	89	0	00	29.52	30.55
04	BKN	050	10.00		66	53	59	63	3	VR	28.82	29.76	04	CLR	NC	10.00		28	25	27	88	0	00	29.50	30.53
07	OVC	070	10.00		70	57	62	64	13	19	28.74	29.69	07	CLR	NC	10.00		27	24	26	89	0	00	29.52	30.55
10	OVC	026	3.00	-RA BR	58	56	57	93	7	21	28.77	29.74	10	CLR	NC	10.00		35	30	33	82	3	07	29.55	30.58
13	BKN	023	10.00		60	56	58	86	8	23	28.70	29.66	13	CLR	NC	10.00		46	28	39	50	0	00	29.49	30.50
16	CLR	NC	10.00		65	47	55	52	8	21	28.69	29.62	16	CLR	NC	10.00		49	28	40	44	0	00	29.41	30.42
19	CLR	NC	10.00		61	46	53	58	8	21	28.71	29.65	19	CLR	NC	10.00		43	31	38	63	0	00	29.39	30.41
22	SCT	047	10.00		58	44	51	60	7	23	28.79	29.75	22	CLR	NC	10.00		39	32	36	76	0	00	29.37	30.39
SUNRISE: 0740 DEC 15					SUNSET: 1724					SUNRISE: 0744 DEC 21					SUNSET: 1726										
01	FEW	039	10.00		55	45	50	69	0	00	28.87	29.83	01	CLR	NC	10.00		41	30	37	65	3	21	29.36	30.37
04	BKN	032	10.00		54	44	49	69	5	VR	28.92	29.88	04	CLR	NC	10.00		42	31	37	65	3	21	29.32	30.32
07	CLR	NC	10.00		48	43	46	83	0	00	28.96	29.93	07	BKN	120	10.00		44	31	39	60	5	23	29.31	30.31
10	CLR	NC	10.00		55	45	50	69	3	21	29.01	29.97	10	OVC	100	10.00	-RA	44	39	42	83	3	16	29.30	30.30
13	CLR	NC	10.00		62	44	53	52	3	18	28.97	29.93	13	OVC	110	10.00		49	42	46	77	5	VR	29.22	30.22
16	CLR	NC	10.00		66	45	55	47	6	16	28.95	29.90	16	OVC	035	10.00		53	47	50	80	3	VR	29.13	30.13
19	CLR	NC	10.00		54	47	50	77	0	00	28.97	29.94	19	OVC	043	10.00		53	49	51	86	5	VR	29.13	30.11
22	CLR	NC	10.00		47	44	46	90	0	00	28.99	29.97	22	OVC	055	6.00	-RA BR	53	51	52	93	5	VR	29.10	30.09
SUNRISE: 0741 DEC 16					SUNSET: 1724					SUNRISE: 0744 DEC 22					SUNSET: 1727										
01	CLR	NC	10.00		43	40	42	89	0	00	28.99	29.96	01	OVC	014	4.00	-RA BR	53	52	52	96	5	20	29.05	30.02
04	VV	001	1.00	BR	40	38	39	93	0	00	29.00	29.96	04	OVC	004	8.00		53	52	52	96	0	00	28.99	29.96
07	VV	002	0.25	FG	40	39	40	97	0	00	29.01	29.99	07	OVC	003	6.00	BR	54	53	53	97	7	25	28.98	29.95
10	VV	002	0.25	FG	43	43	43	100	0	00	29.03	30.02	10	OVC	003	2.50	BR	55	54	54	96	0	00	29.03	30.00
13	CLR	NC	10.00		63	45	53	52	6	27	28.97	29.94	13	OVC	004	7.00		58	56	57	93	0	00	29.00	29.96
16	CLR	NC	10.00		64	46	54	52	0	00	28.92	29.89	16	OVC	007	10.00		61	57	59	87	5	26	28.98	29.94
19	BKN	048	10.00		56	49	52	77	0	00	28.93	29.91	19	OVC	008	8.00		59	57	58	93	0	00	29.00	29.96
22	CLR	NC	10.00		53	48	50	83	0	00	28.90	29.88	22	OVC	049	0.50	FG	57	56	56	96	0	00	28.98	29.94
SUNRISE: 0741 DEC 17					SUNSET: 1725					SUNRISE: 0745 DEC 23					SUNSET: 1727										
01	OVC	095	10.00	-RA	54	51	52	90	0	00	28.85	29.81	01	OVC	036	1.75	BR	57	56	56	96	0	00	28.94	29.91
04	OVC	050	2.50	RA BR	54	52	53	93	0	00	28.84	29.80	04	OVC	070	3.00	-RA BR	57	55	56	93	0	00	28.94	29.90
07	OVC	009	3.00	-RA BR	53	52	52	96	0	00	28.83	29.79	07	OVC	033	4.00	-RA BR	57	55	56	93	0	00	28.91	29.87
10	OVC	005	3.00	-RA BR	55	53	54	93	0	00	28.85	29.82	10	OVC	003	5.00	BR	58	56	57	93	0	00	28.90	29.86
13	OVC	016	10.00		56	53	54	90	0	00	28.86	29.82	13	BKN	110	6.00	BR	60	58	59	93	0	00	28.84	29.79
16	OVC	016	10.00		54	48	51	80	3	23	28.87	29.84	16	BKN	120	10.00		63	61	62	93	0	00	28.77	29.73
19	BKN	021	10.00		49	44	47	83	0	00	28.92	29.90	19	OVC	100	10.00		62	59	60	90	3	21	28.78	29.73
22	OVC	032	10.00		45	40	43	83	0	00	28.94	29.92	22	OVC	031	10.00	-RA	62	59	60	90	5	26	28.79	29.75
SUNRISE: 0742 DEC 18					SUNSET: 1725					SUNRISE: 0745 DEC 24					SUNSET: 1728										
01	OVC	028	10.00		41	37	39	86	0	00	28.97	29.95	01	OVC	047	5.00	-RA BR	63	60	61	90	0	00	28.82	29.77
04	CLR	NC	10.00		36	33	35	89	0	00	29.02	30.00	04	BKN	075	10.00		64	62	63	93	5	VR	28.85	29.80
07	OVC	022	10.00		34	31	33	89	0	00	29.06	30.05	07	OVC	080	2.00	BR	61	60	60	97	0	00	28.98	29.93
10	OVC	027	10.00		36	27	33	70	7	25	29.13	30.14	10	VV	002	0.25	FG	61	60	60	97	0	00	29.07	30.02
13	OVC	029	10.00		36	24	32	62	7	27	29.17	30.18	13	SCT	027	10.00		71	64	67	79	0	00	29.06	30.01
16	OVC	047	10.00		37	24	32	59	8	27	29.23	30.24	16	BKN	075	10.00		73	59	64	62	3	22	29.05	29.99
19	CLR	NC	10.00		33	22	29	64	3	19	29.30	30.32	19	CLR	NC	10.00		63	59	61	87	0	00	29.13	30.08
22	CLR	NC	10.00		30	23	28	75	0	00	29.35	30.37	22	BKN	029	10.00		62	59	60	90	0	00	29.17	30.14

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2015

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: 0745 DEC 25					SUNSET: 1729							
01	OVC	026	9.00		63	60	61	90	3	18	29.17	30.12
04	OVC	085	8.00		62	60	61	93	0	00	29.15	30.10
07	BKN	100	10.00		67	62	64	84	9	20	29.16	30.11
10	OVC	043	0.50	+RA FG	64	63	63	96	3	23	29.16	30.12
13	OVC	110	1.00	RA BR	63	61	62	93	0	00	29.20	30.16
16	OVC	100	3.00	RA BR	63	61	62	93	3	VR	29.20	30.16
19	OVC	100	9.00	-RA	63	60	61	90	6	25	29.21	30.17
22	BKN	020	10.00		63	60	61	90	5	VR	29.25	30.21
SUNRISE: 0746 DEC 26					SUNSET: 1729							
01	BKN	023	10.00		63	60	61	90	0	00	29.23	30.19
04	CLR	NC	10.00		62	59	60	90	5	VR	29.21	30.16
07	OVC	009	10.00	-RA	62	60	61	93	3	19	29.26	30.22
10	OVC	110	10.00	-RA	64	61	62	90	0	00	29.29	30.26
13	SCT	011	10.00		68	62	64	81	3	18	29.24	30.20
16	OVC	055	10.00		72	62	66	71	5	25	29.19	30.14
19	OVC	070	10.00		67	63	65	87	0	00	29.20	30.16
22	OVC	070	10.00		64	62	63	93	0	00	29.18	30.14
SUNRISE: 0746 DEC 27					SUNSET: 1730							
01	CLR	NC	8.00		62	60	61	93	0	00	29.15	30.11
04	SCT	090	10.00		62	60	61	93	5	22	29.13	30.08
07	BKN	045	10.00		63	61	62	93	5	22	29.13	30.07
10	BKN	050	10.00		68	63	65	84	7	VR	29.13	30.08
13	BKN	055	10.00		73	64	67	74	6	VR	29.07	30.01
16	OVC	048	10.00	-RA	71	64	67	79	7	20	29.04	29.98
19	FEW	070	10.00		68	62	64	81	0	00	29.07	30.01
22	BKN	042	10.00		63	61	62	93	0	00	29.07	30.01
SUNRISE: 0746 DEC 28					SUNSET: 1731							
01	CLR	NC	5.00	BR	61	59	60	93	0	00	29.05	29.99
04	VV	002	0.25	FG	59	57	58	93	0	00	29.02	29.97
07	OVC	049	3.00	-RA BR	60	58	59	93	0	00	29.00	29.95
10	BKN	095	10.00		64	62	63	93	0	00	28.98	29.93
13	SCT	060	10.00		69	62	65	78	0	00	28.88	29.82
16	OVC	100	10.00	-RA	69	62	65	78	0	00	28.77	29.72
19	OVC	033	0.75	+RA BR	64	62	63	93	6	VR	28.83	29.78
22	BKN	019	10.00		68	64	65	87	5	VR	28.80	29.75
SUNRISE: 0747 DEC 29					SUNSET: 1731							
01	CLR	NC	10.00		68	58	62	70	9	22	28.84	29.78
04	SCT	040	10.00		61	53	57	75	6	VR	28.91	29.86
07	CLR	NC	10.00		58	52	55	81	6	VR	28.99	29.94
10	OVC	031	10.00		60	52	56	75	7	VR	29.07	30.02
13	CLR	NC	10.00		63	49	55	60	7	VR	29.08	30.03
16	CLR	NC	10.00		65	46	55	51	6	25	29.09	30.04
19	CLR	NC	10.00		59	47	53	64	3	23	29.13	30.10
22	CLR	NC	10.00		52	47	49	83	0	00	29.16	30.13
SUNRISE: 0747 DEC 30					SUNSET: 1732							
01	CLR	NC	10.00		50	47	48	89	0	00	29.18	30.16
04	OVC	120	10.00		50	47	48	89	0	00	29.19	30.16
07	OVC	120	10.00		50	48	49	93	0	00	29.18	30.16
10	OVC	041	10.00		53	49	51	86	0	00	29.21	30.19
13	OVC	060	2.50	RA BR	54	52	53	93	5	19	29.17	30.16
16	OVC	075	10.00		56	52	54	87	6	25	29.18	30.16
19	OVC	085	10.00		55	52	53	90	0	00	29.20	30.18
22	SCT	090	10.00		51	48	49	89	0	00	29.19	30.18

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: 0747 DEC 31					SUNSET: 1733							
01	OVC	024	10.00		51	47	49	86	0	00	29.20	30.19
04	OVC	023	10.00		51	47	49	86	3	16	29.22	30.21
07	OVC	016	10.00		50	44	47	80	0	00	29.24	30.22
10	OVC	018	10.00		49	42	46	77	3	VR	29.28	30.27
13	OVC	024	10.00		51	40	46	66	3	07	29.26	30.24
16	OVC	029	10.00		50	38	44	63	5	06	29.23	30.22
19	SCT	025	10.00		43	35	40	74	3	07	29.30	30.30
22	BKN	025	10.00		41	33	38	73	3	VR	29.31	30.31

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.

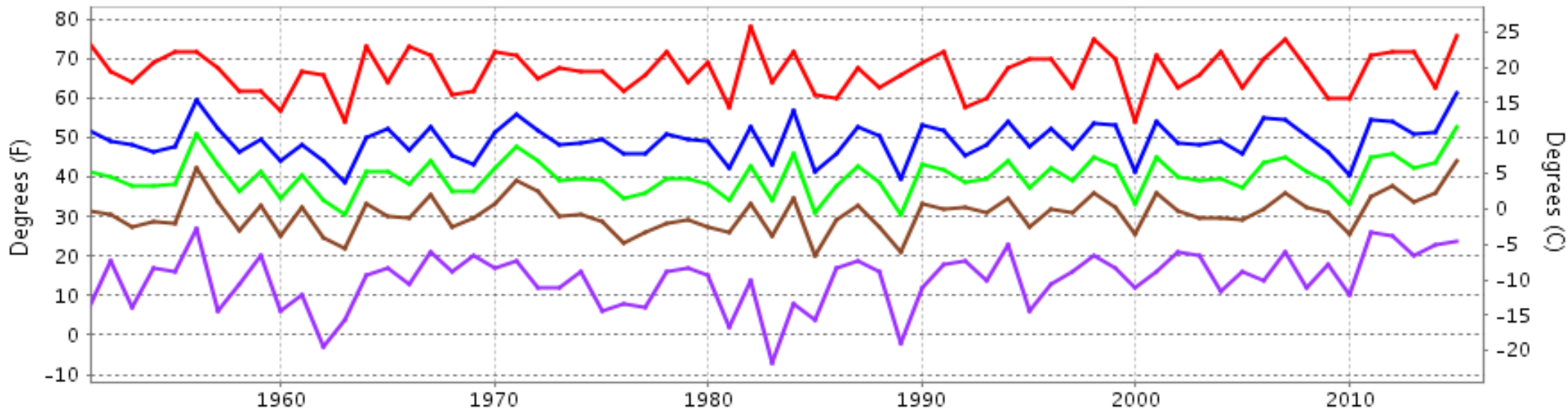
& = Original observation contained additional weather elements.

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	49	45	47	86	29.13	30.11	8.19	1	2	24
02	49	45	47	87	29.13	30.10	7.56	1	2	24
03	48	44	47	87	29.13	30.10	7.73	1	4	24
04	48	44	46	87	29.13	30.11	7.43	1	xx	xx
05	48	45	46	88	29.13	30.10	7.57	1	2	24
06	48	44	46	88	29.14	30.12	7.10	1	3	25
07	48	44	46	88	29.15	30.13	7.33	2	3	25
08	48	44	46	88	29.16	30.14	6.74	1	3	24
09	49	45	47	87	29.17	30.15	7.01	3	2	23
10	51	46	49	84	29.18	30.16	6.88	3	1	21
11	54	47	50	78	29.18	30.16	8.06	4	2	25
12	56	46	51	72	29.16	30.14	9.18	4	1	24
13	58	46	52	68	29.14	30.12	9.15	4	2	25
14	59	46	52	64	29.12	30.10	9.54	4	2	25
15	60	46	53	62	29.11	30.08	9.65	5	2	26
16	60	46	53	62	29.11	30.08	9.51	4	2	25
17	59	46	52	64	29.12	30.09	9.65	3	2	25
18	55	46	51	72	29.12	30.10	9.55	2	2	24
19	53	46	50	77	29.13	30.12	9.44	2	2	24
20	52	46	49	80	29.14	30.13	9.21	2	1	22
21	51	46	48	83	29.14	30.13	9.31	1	1	19
22	50	45	48	84	29.14	30.12	9.24	1	3	24
23	49	45	47	85	29.14	30.12	9.02	1	1	22
24	49	45	47	85	29.14	30.12	8.88	1	3	25

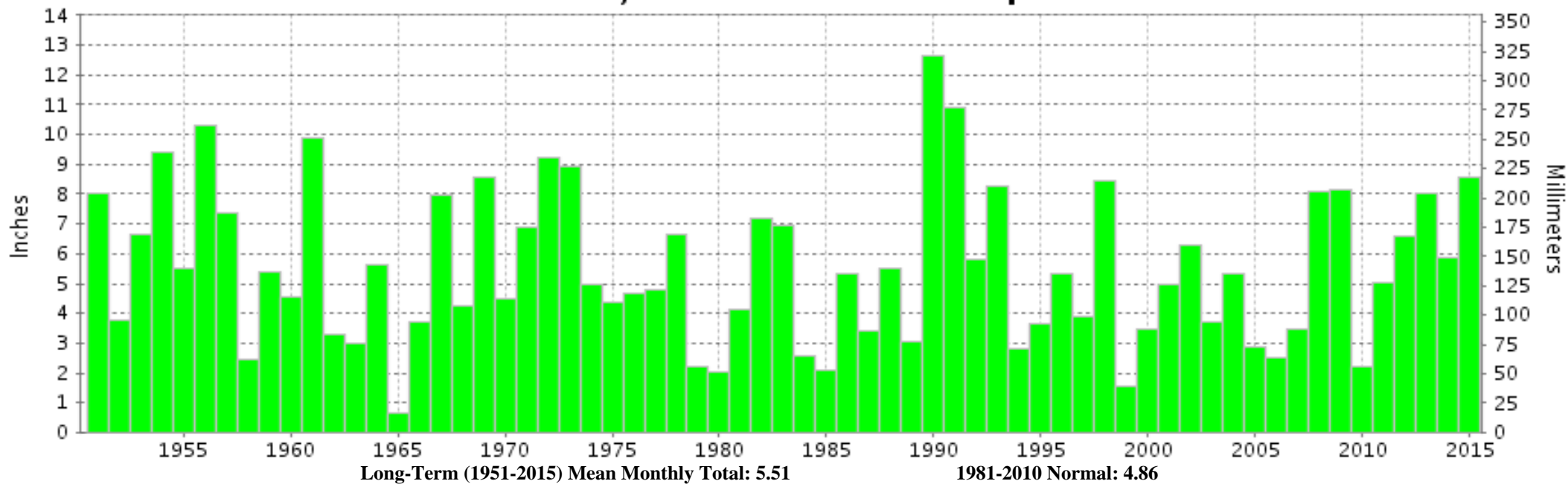
OAK RIDGE, TN DECEMBER Temperatures



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

Long-Term (1951-2015) Mean: 40.1
1981-2010 Normal: 40.3

OAK RIDGE, TN DECEMBER Precipitation



Long-Term (1951-2015) Mean Monthly Total: 5.51

1981-2010 Normal: 4.86



**DECEMBER 2015
OAK RIDGE, TN**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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 Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov/IPS/lcd/lcd.html

We welcome your questions or comments, please contact us at:
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