



# MARCH 1999

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# OAK RIDGE, TN

OAK RIDGE (OQT)  
 Lat: 36°01' N Long: 84°14' W Elev (Ground): 910 Feet  
 Time Zone: EASTERN WBAN: 53868 ISSN #: -

**MARCH 1999**  
**OAK RIDGE, TN**

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES						DATE				
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM							
																			5-SEC		2-MIN					
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24				
01	55	37	46	3	28	37	19	0				0.00	28.89	29.88	3.9	24	5.3	16	26	11	26	01				
02	64	28	46	3	30	39	19	0	RA BR			0.17	28.88	29.87	1.6	20	2.7	22	22	15	23	02				
03	53	32	43	-1	34	38	22	0	RA SN BR UP			0.98	28.79	29.78	6.9	26	8.8	25	28	18	29	03				
04	46	28	37	-7	21	30	28	0	SN			T	29.19	30.21	0.2	25	1.3	20	28	14	30	04				
05	58	27*	43	-1	28	37	22	0	RA BR			T	29.22	30.22	1.4	22	2.3	14	22	11	18	05				
06	60	38	49	4	38	43	16	0	RA			0.25	29.14	30.13	4.9	27	7.3	28*	29	21*	29	06				
07	47	30	39	-6	19	31	26	0				0.00	29.47	30.49	7.8	03	8.7	22	07	17	05	07				
08	46	30	38	-7	18	31	27	0	RA			T	29.38	30.40	4.3	06	5.0	14	06	11	06	08				
09	44	35	40	-6	37	38	25	0	RA SN BR			0.60	28.99	29.99	4.0	25	5.0	15	26	10	26	09				
10	42	34	38	-8	30	35	27	0	RA			T	29.09	30.09	2.6	33	5.3	14	03	10	05	10				
11	48	31	40	-6	20	31	25	0				0.00	29.17	30.19	4.9	03	6.1	17	03	13	04	11				
12	52	28	40	-7	17	31	25	0				0.00	29.21	30.23	8.6	05	8.7	21	06	16	05	12				
13	41	32	37*	-10	28	34	28	0	RA SN BR			1.11	29.11	30.12	5.8	05	6.7	17	05	14	07	13				
14	50	37	44	-3	42	43	21	0	RA BR			0.44	28.67	29.65	3.0	05	4.5	14	04	10	05	14				
15	47	32	40	-8	32	36	25	0	RA SN BR			0.22	28.99	29.99	4.1	05	5.3	21	06	17	07	15				
16	65	28	47	-1	30	38	18	0	FG+ FZFG BR			0.00	29.16	30.16	1.2	24	1.7	14	17	10	21	16				
17	75*	33	54	6			11	0				0.00					3.1					17				
18	72	35	54	5			11	0				0.00					6.8					18				
19	62	37	50	1	31	41	15	0				0.00	29.28	30.26	4.5	06	5.0	16	06	14	06	19				
20	69	38	54	5	36	46	11	0	RA BR			0.18	29.13	30.11	1.2	07	4.0	14	27	10	26	20				
21	64	46	55*	5	38	47	10	0	RA BR			0.26	28.95	29.92	3.8	34	6.2	23	33	16	33	21				
22	60	32	46	-4	25	38	19	0				0.00	29.12	30.10	1.3	25	3.3	16	27	10	24	22				
23	64	43	54	4	36	46	11	0	RA			0.13	29.10	30.08	1.0	19	4.0	20	26	14	21	23				
24	64	43	54	4	48	51	11	0	RA BR			0.14	29.05	30.02	2.6	26	4.5	20	27	15	27	24				
25	60	36	48	-3	35	42	17	0	FG+ BR			0.00	29.09	30.08	2.3	03	3.9	16	01	13	02	25				
26	46	39	43	-8	31	38	22	0				0.00	29.15	30.14	6.4	05	6.8	22	07	18	07	26				
27	60	33	47	-4	33	40	18	0	BR			0.00	29.20	30.20	1.3	09	2.3	14	06	10	12	27				
28	63	31	47	-5	34	42	18	0	BR			0.00	29.20	30.19	1.3	14	1.6	11	20	9	18	28				
29	61	44	53	1	45	49	12	0	RA BR			0.04	29.27	30.25	0.1	23	.7	8	10	7	06	29				
30	69	38	54	2	37	46	11	0	BR			0.00	29.33	30.32	3.1	06	3.9	23	09	17	08	30				
31	55	45	50	-3	47	49	15	0	RA BR			0.39	29.19	30.17	1.5	05	1.6	9	05	7	05	31				
56.8		34.8	45.8	■ ■			18.9	0.0	< MONTHLY AVERAGES		TOTALS-->		4.91				4.6	<- MONTHLY AVERAGES								
-3.3		-.9	-2.1	■ ■	<----- DEPARTURE FROM NORMAL ----->										-.77	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.11 DATE: 13			SEA LEVEL PRESSURE			DATE TIME											
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:			MAXIMUM			: 30.40 30 0954												
HEATING: 585 55				585 -3250				GREATEST SNOW DEPTH:			MINIMUM			: 29.84 21 1549												
COOLING: 0 0				0 0				NUMBER OF DAYS WITH →			MAXIMUM TEMP ≥ 90: 0			MINIMUM TEMP ≤ 32: 13			PRECIPITATION ≥ 0.01 INCH: 13									
											MAXIMUM TEMP ≤ 32: 0			MINIMUM TEMP ≤ 0: 0			PRECIPITATION ≥ 0.10 INCH: 12									
											THUNDERSTORMS: 0			HEAVY FOG: 2			SNOWFALL ≥ 1.0 INCH: :									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## OAK RIDGE, TN

MARCH 1999

OQT

WBAN # 53868

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01			0.00	
02													02												02			0.17	
03	0.08	0.08	0.08	0.08	0.29	0.15	0.07	0.04	0.03	0.03	0.01	0.01	03	0.01	T	T	T	T	T					0.03	0.14	03		0.98	
04	T												04											T		04		T	
05													05							T	T	T			05			T	
06					0.17	0.08	T	T					06												06			0.25	
07													07												07			0.00	
08													08											T	08			T	
09	0.01	0.05	0.10	0.19	0.10								09	0.04	0.02		0.01	0.01	0.01	0.01	0.01				09			0.60	
10													10												10			T	
11													11												11			0.00	
12													12												12			0.00	
13													13	0.15	0.06	0.01	0.01	0.02	0.09	0.03	0.04	0.04	0.09	0.08	0.09	13		1.11	
14	0.01						T	0.06					14				0.05	0.09	0.02		0.01	0.04	0.01	0.03	14			0.44	
15	0.09	0.09	0.02	0.02	T								15												15			0.22	
16													16												16			0.00	
17													17												17			0.00	
18													18												18			0.00	
19													19												19			0.00	
20													20							T	T	T	0.04	0.11	0.03	20			0.18
21	0.06	0.06	0.09	0.04	0.01	T	T						21												21			0.26	
22													22												22			0.00	
23													23							T	T	T		0.06	0.07	23			0.13
24	0.07	0.03	T	T	0.01		T	0.03	T				24												24			0.14	
25													25												25			0.00	
26													26												26			0.00	
27													27												27			0.00	
28													28												28			0.00	
29				T	0.01	T	T	T	0.01	0.01	0.01		29												29			0.04	
30													30												30			0.00	
31										T	0.01	0.01	31	0.06	0.06	0.10	0.07	0.02	0.02	0.01	T	0.01	0.01	T	0.01	31		0.39	

### 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 (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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.

## 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 1961 – 1990

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	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 Unknown Precipitation		

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

## OAK RIDGE, TN MARCH 1999

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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

### ADDITIONAL NOTES:

March 1999 is the first month ASOS data was processed.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							6.00	10.00	
03							1.75	10.00	
04							10.00	10.00	
05							6.00	10.00	
06							6.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							2.50	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							1.00	10.00	
14							2.00	10.00	
15							3.00	10.00	
16							<.25	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							3.00	10.00	
21							2.00	10.00	
22							10.00	10.00	
23							4.00	10.00	
24							1.25	10.00	
25							<.25	10.00	
26							10.00	10.00	
27							5.00	10.00	
28							5.00	10.00	
29							5.00	10.00	
30							4.00	10.00	
31							2.00	10.00	
<b>MONTHLY AVGS</b>							5.80	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total: Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH: SKY CONDITION</b>									
CLR PTLY CLDY CLOUDY MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25 <=3.0 >=7.0 2 11 12									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MARCH 1999

OQT

WBAN # 53868

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0707				MAR 01				SUNSET: 1831				SUNRISE: 0659				MAR 07				SUNSET: 1837			
01	BKN	048		41	27	35	57	6	27	28.84	29.83	01	OVC	031		37	25	32	62	7	VR	29.38	30.37
04	BKN	050		37	30	34	76	0	00	28.84	29.83	04	OVC	029		34	22	30	61	9	03	29.40	30.40
07	OVC	038		39	29	35	67	3	VR	28.87	29.86	07	OVC	029		31	20	27	64	12	04	29.46	30.48
10	OVC	032		41	30	36	65	7	VR	28.93	29.92	10	CLR	NC		33	20	29	59	14	04	29.52	30.55
13	CLR	NC		47	31	40	54	8	23	28.92	29.91	13	CLR	NC		41	20	33	43	12	07	29.50	30.53
16	CLR	NC		54	24	41	31	10	26	28.86	29.84	16	CLR	NC		46	16	35	30	10	04	29.47	30.49
19	CLR	NC		50	20	38	31	0	00	28.90	29.88	19	CLR	NC		40	15	31	36	6	03	29.49	30.52
22	CLR	NC		42	28	36	58	5	23	28.94	29.93	22	CLR	NC		36	16	29	44	8	06	29.50	30.53
SUNRISE: 0706				MAR 02				SUNSET: 1832				SUNRISE: 0658				MAR 08				SUNSET: 1838			
01	CLR	NC		36	30	34	79	0	00	28.94	29.93	01	CLR	NC		32	16	27	52	6	05	29.50	30.53
04	CLR	NC		31	28	30	89	0	00	28.94	29.93	04	CLR	NC		31	16	26	54	7	05	29.48	30.50
07	CLR	NC		29	27	28	92	0	00	28.98	29.98	07	CLR	NC		30	15	25	54	8	06	29.47	30.50
10	CLR	NC		42	31	37	65	0	00	28.99	29.98	10	CLR	NC		34	14	28	44	10	06	29.48	30.51
13	CLR	NC		58	27	44	31	7	21	28.92	29.91	13	CLR	NC		41	16	32	36	7	05	29.45	30.46
16	CLR	NC		63	26	46	25	7	17	28.82	29.80	16	FEW	NC		45	15	34	30	5	09	29.34	30.35
19	BKN	110		57	31	45	37	0	00	28.76	29.75	19	SCT	NC		44	21	35	40	5	07	29.27	30.29
22	OVC	090		50	31	42	48	0	00	28.71	29.69	22	FEW	NC		42	29	37	60	0	00	29.18	30.19
SUNRISE: 0705				MAR 03				SUNSET: 1833				SUNRISE: 0657				MAR 09				SUNSET: 1839			
01	OVC	055		53	51	52	93	6	23	28.71	29.66	01	OVC	048		40	32	37	73	3	VR	29.10	30.11
04	OVC	015		53	51	52	93	8	19	28.58	29.53	04	OVC	017		35	34	35	96	5	28	29.06	30.06
07	OVC	023		47	42	45	83	7	32	28.55	29.51	07	OVC	036		37	34	36	89	0	00	29.04	30.04
10	OVC	015		36	34	35	93	8	24	28.73	29.72	10	OVC	031		38	34	36	86	0	00	28.96	29.96
13	OVC	014		36	33	35	89	12	25	28.80	29.78	13	OVC	007		40	38	39	93	10	25	28.93	29.93
16	OVC	022		36	31	34	82	7	VR	28.85	29.84	16	OVC	005		42	41	42	96	7	25	28.92	29.91
19	OVC	047		35	25	31	67	9	27	28.95	29.95	19	OVC	005		42	41	42	96	6	VR	28.96	29.96
22	OVC	046		33	17	28	52	10	29	29.03	30.04	22	OVC	039		43	39	41	86	7	25	29.00	29.99
SUNRISE: 0703				MAR 04				SUNSET: 1834				SUNRISE: 0655				MAR 10				SUNSET: 1840			
01	OVC	045		31	18	27	59	3	VR	29.09	30.11	01	OVC	035		42	36	39	79	5	26	29.00	29.99
04	OVC	045		30	17	26	59	0	00	29.10	30.12	04	OVC	037		39	32	36	76	3	25	29.01	30.01
07	BKN	041		29	19	26	66	0	00	29.15	30.18	07	OVC	034		38	31	35	76	5	26	29.05	30.05
10	BKN	036		33	20	29	59	3	VR	29.22	30.24	10	BKN	037		40	33	37	77	8	28	29.08	30.08
13	CLR	NC		40	20	33	45	0	00	29.21	30.23	13	OVC	027		39	29	35	67	3	VR	29.09	30.10
16	CLR	NC		44	23	36	43	3	VR	29.20	30.21	16	OVC	027		39	29	35	67	0	00	29.10	30.11
19	CLR	NC		43	21	35	42	0	00	29.22	30.24	19	OVC	031		38	29	34	70	5	VR	29.12	30.14
22	CLR	NC		34	27	31	76	0	00	29.24	30.26	22	OVC	029		35	28	32	76	8	03	29.16	30.17
SUNRISE: 0702				MAR 05				SUNSET: 1835				SUNRISE: 0654				MAR 11				SUNSET: 1841			
01	CLR	NC		30	26	29	85	0	00	29.23	30.25	01	OVC	029		33	22	29	64	7	VR	29.16	30.18
04	CLR	NC		28	25	27	88	0	00	29.26	30.27	04	OVC	025		32	23	29	69	6	03	29.20	30.15
07	CLR	NC		28	25	27	88	0	00	29.29	30.31	07	OVC	025		32	21	28	64	5	35	29.19	30.20
10	CLR	NC		40	28	35	63	0	00	29.28	30.29	10	OVC	025		33	22	29	64	6	04	29.22	30.24
13	CLR	NC		55	23	42	29	6	VR	29.23	30.23	13	BKN	100		40	21	33	47	6	05	29.27	30.18
16	OVC	100		57	22	42	26	6	23	29.17	30.17	16	FEW	NC		47	21	37	36	6	VR	29.13	30.14
19	OVC	070		52	33	43	49	6	VR	29.12	30.13	19	CLR	NC		41	16	32	36	6	03	29.15	30.17
22	OVC	070		51	34	43	52	0	00	29.13	30.13	22	CLR	NC		34	18	29	52	6	03	29.20	30.22
SUNRISE: 0701				MAR 06				SUNSET: 1836				SUNRISE: 0652				MAR 12				SUNSET: 1841			
01	CLR	NC		46	34	41	63	0	00	29.06	30.04	01	CLR	NC		32	19	28	59	8	05	29.21	30.23
04	OVC	065		55	26	43	33	10	23	29.00	29.96	04	CLR	NC		30	19	26	64	8	05	29.20	30.21
07	OVC	024		45	42	44	90	0	00	29.07	30.05	07	CLR	NC		28	19	25	69	7	04	29.26	30.28
10	OVC	029		47	44	46	90	8	23	29.11	30.09	10	CLR	NC		36	19	30	50	12	04	29.29	30.31
13	OVC	018		55	48	51	77	13	25	29.10	30.09	13	CLR	NC		47	16	36	29	9	05	29.25	30.27
16	FEW	NC		59	44	51	58	14	26	29.10	30.08	16	CLR	NC		51	9	36	18	12	06	29.17	30.17
19	BKN	036		47	32	40	56	5	VR	29.23	30.23	19	CLR	NC		46	16	35	30	6	05	29.15	30.16
22	OVC	040		41	27	35	57	7	35	29.33	30.33	22	CLR	NC		41	17	32	38	7	04	29.17	30.18

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

MARCH 1999

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okta			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0651 MAR 13 SUNSET: 1842								SUNRISE: 0642 MAR 19 SUNSET: 1847																							
01	CLR	NC				10.00		40	14	31	35	9	05	29.20	30.20	01	CLR	NC				10.00		43	31	38	63	0	00	29.27	30.24
04	FEW	NC				10.00		40	14	31	35	10	05	29.16	30.16	04	CLR	NC				10.00		38	33	36	83	0	00	29.26	30.24
07	OVC	080				10.00		39	15	31	38	9	05	29.17	30.17	07	CLR	NC				10.00		41	31	37	67	5	07	29.31	30.29
10	OVC	023				5.00	RA BR	33	30	32	89	0	00	29.23	30.25	10	CLR	NC				10.00		49	32	42	52	12	06	29.32	30.30
13	OVC	042				3.00	RA BR	33	33	33	100	6	04	29.16	30.18	13	CLR	NC				10.00		54	31	44	42	5	02	29.32	30.31
16	OVC	007				10.00		35	35	35	100	10	05	29.03	30.03	16	CLR	NC				10.00		59	33	47	38	3	VR	29.25	30.24
19	OVC	050				10.00		36	36	36	100	6	07	29.04	30.04	19	CLR	NC				10.00		56	29	44	36	3	06	29.24	30.23
22	OVC	028				3.00	-RA BR	37	37	37	100	3	06	29.01	30.02	22	CLR	NC				10.00		51	30	42	45	6	03	29.26	30.25
SUNRISE: 0650 MAR 14 SUNSET: 1843								SUNRISE: 0641 MAR 20 SUNSET: 1848																							
01	OVC	009				6.00	BR	38	38	38	100	5	07	28.85	29.86	01	CLR	NC				10.00		47	30	40	52	6	06	29.25	30.24
04	OVC	090				10.00		41	39	40	93	7	VR	28.74	29.74	04	CLR	NC				10.00		41	31	37	67	0	00	29.22	30.20
07	OVC	046				10.00		42	39	41	89	6	04	28.69	29.68	07	CLR	NC				10.00		38	32	36	79	0	00	29.21	30.20
10	OVC	028				8.00	-RA	43	42	43	97	3	VR	28.67	29.66	10	CLR	NC				10.00		54	31	44	42	8	08	29.19	30.17
13	OVC	031				10.00		48	45	47	89	9	06	28.62	29.59	13	FEW	NC				10.00		65	32	49	29	5	VR	29.12	30.09
16	OVC	015				2.00	RA BR	47	47	47	100	7	24	28.60	29.57	16	BKN	110				10.00		68	35	52	30	6	29	29.04	30.01
19	OVC	016				5.00	BR	45	45	45	100	3	VR	28.61	29.59	19	BKN	095				10.00	-RA	64	41	52	43	0	00	29.02	30.00
22	OVC	006				6.00	-RA BR	43	43	43	100	0	00	28.64	29.62	22	OVC	060				7.00	-RA	52	51	52	97	0	00	29.07	30.04
SUNRISE: 0648 MAR 15 SUNSET: 1844								SUNRISE: 0640 MAR 21 SUNSET: 1849																							
01	OVC	015				5.00	RA BR	37	35	36	93	5	04	28.71	29.69	01	OVC	046				3.00	RA BR	50	50	50	100	0	00	29.02	29.98
04	OVC	014				3.00	-SN BR	34	33	34	97	3	34	28.78	29.78	04	OVC	040				3.00	BR	50	50	50	100	5	35	28.92	29.88
07	OVC	015				10.00		34	30	32	85	3	35	28.89	29.89	07	OVC	021				5.00	BR	49	49	49	100	5	07	28.90	29.86
10	OVC	027				10.00		37	31	35	79	9	05	28.99	29.99	10	OVC	024				5.00	BR	50	50	50	100	3	03	28.93	29.91
13	FEW	NC				10.00		42	33	38	71	10	06	29.03	30.03	13	SCT	NC				10.00		57	44	50	62	5	VR	28.92	29.89
16	CLR	NC				10.00		46	31	40	56	10	08	29.05	30.05	16	FEW	NC				10.00		64	32	49	30	12	28	28.88	29.85
19	CLR	NC				10.00		43	31	38	63	3	10	29.11	30.12	19	CLR	NC				10.00		57	20	42	24	9	32	28.95	29.92
22	CLR	NC				10.00		35	32	34	89	0	00	29.16	30.18	22	CLR	NC				10.00		51	19	39	28	12	32	29.04	30.01
SUNRISE: 0647 MAR 16 SUNSET: 1845								SUNRISE: 0638 MAR 22 SUNSET: 1850																							
01	CLR	NC				7.00		31	30	31	96	0	00	29.18	30.19	01	CLR	NC				10.00		46	22	37	38	8	34	29.07	30.04
04	OVC	001				0.50	FZFG	29	28	29	96	0	00	29.16	30.17	04	CLR	NC				10.00		36	26	32	67	3	24	29.08	30.07
07	VV	001				< .25	FZFG	29	28	29	96	0	00	29.21	30.23	07	CLR	NC				10.00		33	26	30	75	3	25	29.12	30.12
10	CLR	NC				10.00		39	35	37	86	0	00	29.23	30.24	10	CLR	NC				10.00		47	25	38	42	0	00	29.15	30.14
13	CLR	NC				10.00		56	29	44	36	0	00	29.17	30.17	13	CLR	NC				10.00		55	23	42	29	6	VR	29.14	30.12
16	CLR	NC				10.00		64	28	48	26	9	22	29.10	30.10	16	CLR	NC				10.00		58	22	43	25	5	17	29.09	30.08
19	CLR	NC				10.00		59	30	46	33	0	00	29.09	30.09	19	CLR	NC				10.00		55	18	40	23	3	26	29.11	30.11
22	CLR	NC				10.00		44	35	40	71	0	00	29.11	30.12	22	SCT	NC				10.00		45	33	40	63	0	00	29.12	30.12
SUNRISE: 0645 MAR 17 SUNSET: 1846								SUNRISE: 0637 MAR 23 SUNSET: 1851																							
01	CLR	NC				10.00		40	33	37	77	0	00	29.11	30.11	01	OVC	120				10.00		43	33	39	68	3	36	29.16	30.15
04	CLR	NC				10.00		39	32	36	76	3	24	29.11	30.10	04	OVC	100				10.00		45	37	41	74	6	10	29.13	30.11
07	CLR	NC				10.00		35	32	34	89	0	00	29.16	30.16	07	BKN	120				10.00		44	38	41	79	6	06	29.13	30.12
10	CLR	NC				10.00		57	30	45	36	5	VR	29.18	30.16	10	CLR	NC				10.00		53	35	45	51	0	00	29.13	30.12
13	CLR	NC				10.00		69	32	51	25	8	27	29.13	30.11	13	CLR	NC				10.00		63	32	48	31	6	25	29.08	30.06
16																16	BKN	110				10.00		62	33	48	34	5	22	29.04	30.01
19																19	OVC	095				10.00		63	32	48	31	3	VR	29.05	30.02
22																22	OVC	080				10.00		57	40	49	53	5	06	29.07	30.04
SUNRISE: 0644 MAR 18 SUNSET: 1847								SUNRISE: 0635 MAR 24 SUNSET: 1852																							
01																01	OVC	050				6.00	-RA BR	50	50	50	100	3	07	29.04	30.01
04																04	OVC	085				3.00	BR	50	50	50	100	0	00	29.02	29.98
07																07	OVC	060				1.25	-RA BR	50	50	50	100	3	21	29.05	30.01
10						10.00										10	SCT	NC				10.00		55	50	52	83	8	23	29.04	30.00
13	CLR	NC				10.00		67	31	50	26	10	25	29.15		13	OVC	038				10.00		63	51	56	65	5	VR	29.03	30.00
16	CLR	NC				10.00		69	19	48	15	9	28	29.12		16	CLR	NC				10.00		62	47	54	58	7	VR	29.03	29.99
19	CLR	NC				10.00		63	23	46	22	5	32	29.16		19	CLR	NC				10.00		55	44	49	67	3	VR	29.08	30.05
22	CLR	NC				10.00		54	28	43	37	8	35	29.24		22	BKN	037				10.00		49	44	47	83	0	00	29.12	30.10

# OBSERVATIONS AT 3-HOURLY INTERVALS

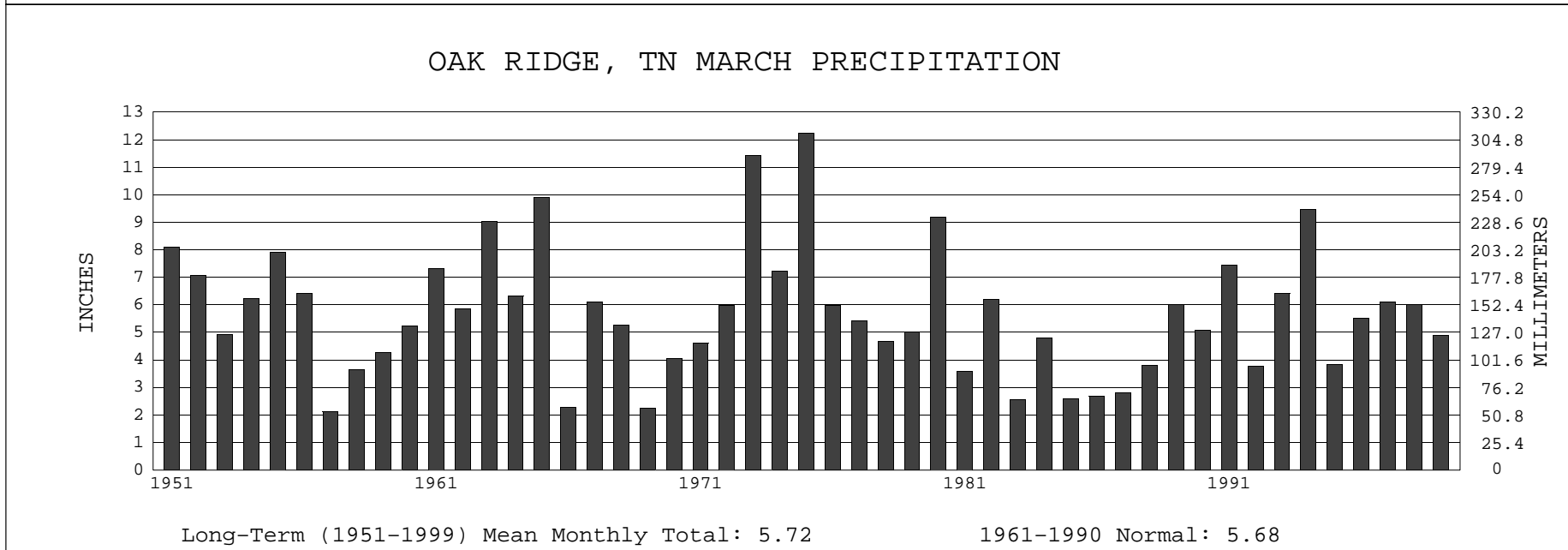
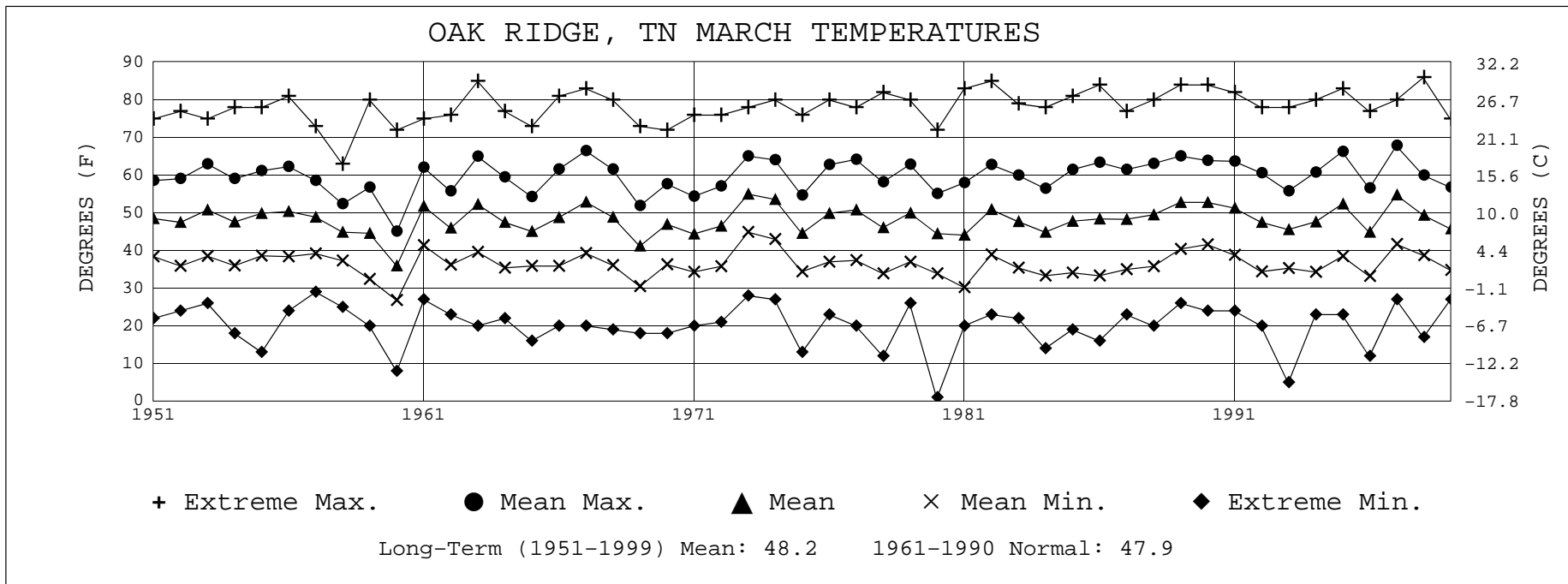
# OAK RIDGE, TN

MARCH 1999

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0634								MAR 25								SUNSET: 1853															
01	CLR	NC			5.00	BR		42	42	42	100	0	00	29.10	30.08	01	CLR	NC			10.00			47	41	44	80	0	00	29.27	30.24
04	VV	001			0.25	FG		37	37	37	100	0	00	29.08	30.06	04	BKN	090			10.00			46	40	43	79	0	00	29.23	30.21
07	VV	001			<.25	FG		36	36	36	100	0	00	29.10	30.09	07	BKN	100			10.00			46	41	44	83	0	00	29.24	30.22
10	FEW	NC			8.00			46	42	44	86	8	06	29.15	30.14	10	BKN	090			10.00			54	42	48	64	0	00	29.26	30.24
13	FEW	NC			10.00			53	41	47	64	6	12	29.11	30.10	13	OVC	055			3.00	RA BR		52	48	50	86	0	00	29.23	30.22
16	BKN	065			10.00			58	36	47	44	3	VR	29.03	30.01	16	OVC	036			2.50	-RA BR		51	51	51	100	5	05	29.16	30.15
19	OVC	075			10.00			53	29	43	40	9	02	29.06	30.04	19	OVC	070			3.00	BR		52	52	52	100	6	06	29.10	30.09
22	OVC	070			10.00			48	25	39	41	9	36	29.08	30.08	22	OVC	070			3.00	-RA BR		52	52	52	100	3	05	29.08	30.06
SUNRISE: 0632								MAR 26								SUNSET: 1853															
01	BKN	090			10.00			44	24	36	45	3	01	29.08	30.07	3-HOURLY OBSERVATION NOTES															
04	OVC	095			10.00			42	23	35	47	0	00	29.06	30.04	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, VV = Vertical Visibility = 8/8.															
07	OVC	060			10.00			41	24	34	51	7	03	29.10	30.09	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
10	BKN	033			10.00			42	31	37	65	9	02	29.16	30.16	NC= No ceiling detected.															
13	OVC	035			10.00			44	34	40	68	8	06	29.18	30.18	& = Original observation contained additional weather elements.															
16	OVC	045			10.00			44	34	40	68	12	06	29.16	30.16	See page 3 for additional notes.															
19	OVC	037			10.00			42	36	39	79	9	05	29.19	30.19																
22	SCT	NC			10.00			40	37	39	89	3	08	29.21	30.22																
SUNRISE: 0631								MAR 27								SUNSET: 1854															
01	OVC	047			10.00			40	37	39	89	0	00	29.22	30.23																
04	BKN	060			10.00			40	37	39	89	3	08	29.19	30.20																
07	CLR	NC			5.00	BR		33	33	33	100	0	00	29.23	30.24																
10	CLR	NC			10.00			48	32	41	54	6	06	29.26	30.26																
13	SCT	NC			10.00			55	30	44	39	5	VR	29.23	30.22																
16	CLR	NC			10.00			58	30	45	35	7	14	29.14	30.13																
19	CLR	NC			10.00			56	27	43	33	3	08	29.15	30.15																
22	CLR	NC			10.00			44	33	39	65	3	07	29.19	30.19																
SUNRISE: 0630								MAR 28								SUNSET: 1855															
01	CLR	NC			10.00			37	33	35	86	0	00	29.21	30.20																
04	CLR	NC			8.00			34	33	34	97	0	00	29.18	30.18																
07	CLR	NC			5.00	BR		31	31	31	100	0	00	29.24	30.24																
10	CLR	NC			10.00			50	35	43	57	0	00	29.24	30.24																
13	CLR	NC			10.00			62	32	48	32	0	00	29.20	30.19																
16	CLR	NC			10.00			62	33	48	34	8	17	29.14	30.13																
19	CLR	NC			10.00			59	34	47	39	0	00	29.14	30.14																
22	BKN	070			10.00			56	36	47	47	0	00	29.19	30.17																
SUNRISE: 0628								MAR 29								SUNSET: 1856															
01	OVC	065			10.00			53	39	46	59	0	00	29.21	30.19																
04	OVC	055			10.00			51	44	48	77	0	00	29.23	30.20																
07	OVC	048			7.00			48	47	47	96	0	00	29.23	30.22																
10	OVC	050			8.00	-RA		50	45	48	83	3	VR	29.31	30.29																
13	CLR	NC			10.00			57	46	51	67	0	00	29.29	30.26																
16	OVC	047			10.00			60	43	51	53	0	00	29.25	30.23																
19	CLR	NC			10.00			58	44	51	60	0	00	29.27	30.26																
22	CLR	NC			7.00			47	45	46	93	0	00	29.32	30.32																
SUNRISE: 0627								MAR 30								SUNSET: 1857															
01	CLR	NC			5.00	BR		43	43	43	100	0	00	29.34	30.33																
04	CLR	NC			4.00	BR		40	40	40	100	3	06	29.33	30.32																
07	CLR	NC			4.00	BR		40	39	40	97	0	00	29.38	30.37																
10	CLR	NC			10.00			58	38	48	48	7	04	29.41	30.40																
13	CLR	NC			10.00			65	33	50	31	7	VR	29.37	30.35																
16	CLR	NC			10.00			67	31	50	26	5	VR	29.29	30.27																
19	CLR	NC			10.00			63	34	49	34	5	07	29.28	30.26																
22	CLR	NC			10.00			52	42	47	69	0	00	29.30	30.28																





**MARCH 1999  
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.*

DIRECTOR

## NOTICE

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