



# DECEMBER 2001

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# OAK RIDGE, TN

OAK RIDGE (OQT)  
 Lat: 36°01' N Long: 84°14' W Elev (Ground): 913 Feet  
 Time Zone: EASTERN WBAN: 53868 ISSN #: -

DECEMBER 2001  
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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
01	62	39	51	9	42	45	14	0	FG+ BR				0.00	29.23	30.21	0.2	25	.5	8	24	6	24	01	
02	64	38	51	9	37	43	14	0					0.00	29.28	30.27	1.3	06	2.3	15	06	13	06	02	
03	65	33	49	7	37	42	16	0	BR				0.00	29.34	30.34	0.2	26	.7	7	16	6	16	03	
04	68	35	52	11	40	44	13	0	FG+ BR				0.00	29.39	30.39	0.2	20	.4	9	21	7	12	04	
05	70	38	54	13	41	47	11	0	BR				0.00	29.39	30.38	1.9	25	2.2	12	27	9	27	05	
06	71*	54	63*	22	53	57	2	0	RA				T	29.23	30.20	2.9	22	4.3	18	20	15	21	06	
07	63	57	60	19	58	58	5	0	RA FG+ BR				0.44	29.11	30.07	0.5	21	.7	10	21	8	21	07	
08	60	54	57	17	56	57	8	0	RA FG+ BR				0.45	29.00	29.96	1.1	31	3.2	18	01	13	36	08	
09	54	43	49	9	36	42	16	0	RA				T	29.19	30.17	6.2	03	7.1	21	06	17	35	09	
10	47	43	45	5	42	44	20	0	RA BR				1.00	29.19	30.18	2.3	06	2.6	12	01	9	05	10	
11	56	46	51	11	47	48	14	0	RA BR				0.02	29.26	30.25	2.6	05	2.8	15	05	12	05	11	
12	58	47	53	14	49	51	12	0	RA BR				0.17	29.22	30.21	0.2	24	.9	10	25	7	24	12	
13	59	55	57	18	56	57	8	0	RA FG BR				0.84	29.09	30.06	1.4	24	2.2	14	29	12	29	13	
14	68	42	55	16	49	53	10	0	RA BR				0.56	28.96	29.93	3.7	24	5.0	33*	28	22*	22	14	
15	59	42	51	12	41	46	14	0					0.00	29.30	30.28	3.7	05	4.2	16	06	13	06	15	
16	62	43	53	15	41	47	12	0					0.00	29.28	30.27	0.8	20	1.9	13	22	10	22	16	
17	61	51	56	18	51	54	9	0	RA BR				1.01	28.89	29.85	3.0	25	4.5	31	27	20	26	17	
18	56	36	46	8	38	43	19	0	RA				T	28.98	29.96	0.8	25	1.9	15	27	10	28	18	
19	57	31	44	6	36	39	21	0	RA FG+ FZFG BR				T	28.97	29.97	3.2	26	4.4	24	27	17	21	19	
20	47	29	38	0	18	31	27	0					0.00	29.30	30.31	1.7	29	4.0	18	29	13	35	20	
21	53	25	39	2	23	32	26	0					0.00	29.36	30.39	0.1	29	.4	9	12	8	15	21	
22	56	26	41	4	27	34	24	0					0.00	29.30	30.31	0.5	26	1.3	10	26	8	27	22	
23	50	36	43	6	39	42	22	0	RA BR				0.48	29.03	30.02	1.8	24	3.0	15	27	10	25	23	
24	41	25	33	-4	20	29	32	0					0.00	29.07	30.08	2.3	24	3.8	16	21	12	27	24	
25	37	21	29	-8	17	25	36	0					0.00	29.09	30.12	0.2	27	1.2	13	27	9	27	25	
26	37	16*	27	-9	13	23	38	0					0.00	28.98	30.01	1.4	26	2.4	15	26	10	26	26	
27	40	24	32	-4	16	26	33	0					0.00	28.93	29.94	4.1	22	5.4	20	20	15	21	27	
28	49	25	37	1	24	32	28	0					0.00	28.86	29.87	2.9	24	4.4	21	21	15	21	28	
29	46	23	35	-1	22	30	30	0					0.00	29.00	30.01	3.0	25	4.1	21	27	14	26	29	
30	35	17	26	-10	10	22	39	0					0.00	29.25	30.28	0.5	07	2.3	12	20	9	15	30	
31	32	18	25*	-11	14	21	40	0					0.00	29.23	30.27	0.4	06	.6	9	05	8	05	31	
54.3 35.9 45.1 ■■										35.3 40.8 19.8 0.0 < MONTHLY AVERAGES TOTALS-->				4.97 29.15 30.15 0.7 26 2.7 <- MONTHLY AVERAGES										
6.0 7.2 6.5 ■■										<-----DEPARTURE FROM NORMAL----->				-.33				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3						
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.26 DATE: 13-14				SEA LEVEL PRESSURE DATE TIME											
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM : 30.46 04 0953											
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: DATE: DATE:				MINIMUM : 29.64 17 1853											
HEATING: 613			-205			1288			-353			NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 12		PRECIPITATION ≥ 0.01 INCH : 9						
COOLING: 0			0			1373			217					MAXIMUM TEMP ≤ 32 : 1		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 8						
														THUNDERSTORMS : 0		HEAVY FOG : 5		SNOWFALL ≥ 1.0 INCH :						

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

DECEMBER 2001

OQT

WBAN # 53868

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	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		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06	T	T		
07	0.02	0.01	T	T	T	T		0.01	0.04	0.01	0.06	0.06	07	0.09	0.07	0.03	0.02	0.02							07		0.44		
08							0.03	0.01		T	0.01	0.08	08	0.04	0.01	0.01	0.02	0.02	0.01	0.01	0.14	0.02	0.02	0.02	08		0.45		
09			T										09												09		T		
10					T	T	0.03	0.01	0.04	0.05	0.01	0.03	10	T	0.01	0.18	0.17	0.18	0.10	0.11	0.05	0.02	T		10	0.01	1.00		
11	0.01		0.01										11												11		0.02		
12													12												12		0.17		
13	0.02	T	0.01	T	0.17	0.17	0.20	0.03	0.02	0.02	0.01		13		T	T	0.01	0.02	0.05	0.02	0.04	T	0.04	0.09	13	0.04	0.84		
14	0.03	0.11	0.16	0.15	0.10	T					0.01	T	14								0.03	0.01	0.01	T	14		0.56		
15													15												15		0.00		
16													16												16		0.00		
17												0.01	17	0.27	0.16	0.06	0.04	0.10	0.06	0.03	T	0.28		17		1.01			
18				T									18												18		T		
19													19						T						19		T		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23						0.01	0.05	0.05	T	0.01	0.01	0.09	23	0.10	0.15	0.01									23		0.48		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		0.00		
30													30												30		0.00		
31													31												31		0.00		

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.24	.27	.28	.28	.28	.28	.30	.35	.40	.44	.54	.56
Ending Date	17	17	17	17	17	17	17	17	17	13	13	13
Ending Time (Hour/Min)	2010	2010	2010	2010	2010	2010	1306	1325	1345	0637	0642	0712

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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

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

## OAK RIDGE, TN DECEMBER 2001

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							< .25	10.00	
02							10.00	10.00	
03							1.00	10.00	
04							< .25	10.00	
05							6.00	10.00	
06							9.00	10.00	
07							.25	9.00	
08							.25	10.00	
09							10.00	10.00	
10							1.50	10.00	
11							3.00	10.00	
12							2.50	10.00	
13							.50	10.00	
14							.75	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							1.75	10.00	
18							9.00	10.00	
19							< .25	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							1.50	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							9.00	10.00	
<b>MONTHLY AVGS</b>							6.15	9.90	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25   <=3.0   >=7.0 5                      12                      17									



# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

DECEMBER 2001

QQT

WBAN # 53868

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			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			SKY COVER	CEILING 100'S OF FT	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: 0739					DEC 13				SUNSET: 1724				SUNRISE: 0743					DEC 19				SUNSET: 1726							
01	OVC	007	4.00	-RA BR	55	55	55	100	6	VR	29.12	30.10	01	FEW	NC	1.50	BR	35	35	35	100	0	00	28.96	29.96				
04	OVC	005	7.00	-RA	56	56	56	100	0	00	29.10	30.07	04	OVC	001	0.25	FG	32	32	32	100	0	00	28.98	29.97				
07	OVC	015	9.00	-RA	56	55	55	97	0	00	29.11	30.09	07	VV	001	0.25	FG	32	32	32	100	0	00	28.98	29.98				
10	OVC	007	10.00	-RA	57	56	56	96	0	00	29.16	30.13	10	VV	001	0.25	FG	34	34	34	100	0	00	28.97	29.97				
13	BKN	010	10.00		59	57	58	93	3	VR	29.10	30.08	13	CLR	NC	10.00		51	39	45	64	5	VR	28.89	29.88				
16	BKN	013	10.00	-RA	59	58	58	96	3	22	29.08	30.05	16	OVC	070	10.00		55	39	47	55	7	22	28.87	29.86				
19	OVC	016	6.00	-RA BR	58	57	57	97	3	23	29.08	30.06	19	OVC	049	10.00		52	38	45	59	8	26	28.98	29.97				
22	OVC	100	0.75	-RA BR	56	56	56	100	0	00	29.02	29.98	22	OVC	026	10.00		45	36	41	71	10	28	29.09	30.10				
SUNRISE: 0740					DEC 14				SUNSET: 1724				SUNRISE: 0743					DEC 20				SUNSET: 1726							
01	OVC	002	3.00	-RA BR	56	56	56	100	3	08	28.96	29.92	01	OVC	041	10.00		42	27	36	55	8	27	29.16	30.15				
04	OVC	018	2.50	+RA BR	56	55	55	97	5	VR	28.93	29.89	04	CLR	NC	10.00		34	18	29	52	10	35	29.26	30.26				
07	OVC	055	6.00	BR	56	56	56	100	3	23	28.82	29.78	07	CLR	NC	10.00		32	19	28	59	5	36	29.30	30.31				
10	OVC	034	10.00		63	58	60	84	9	21	28.85	29.81	10	CLR	NC	10.00		36	19	30	50	0	00	29.37	30.38				
13	CLR	NC	10.00		67	43	54	42	12	22	28.95	29.90	13	CLR	NC	10.00		42	13	32	30	3	VR	29.30	30.31				
16	FEW	NC	10.00		64	42	53	45	9	22	28.99	29.94	16	CLR	NC	10.00		47	14	35	26	6	19	29.29	30.29				
19	CLR	NC	10.00		55	42	49	62	0	00	29.06	30.03	19	CLR	NC	10.00		40	15	31	36	3	25	29.30	30.32				
22	CLR	NC	10.00		46	43	45	89	0	00	29.11	30.09	22	CLR	NC	10.00		35	18	29	50	5	24	29.32	30.34				
SUNRISE: 0740					DEC 15				SUNSET: 1724				SUNRISE: 0744					DEC 21				SUNSET: 1727							
01	FEW	NC	10.00		42	41	42	96	0	00	29.15	30.13	01	CLR	NC	10.00		30	21	27	69	0	00	29.33	30.35				
04	OVC	037	10.00		46	44	45	93	0	00	29.21	30.19	04	CLR	NC	10.00		28	19	25	69	3	23	29.35	30.36				
07	OVC	037	10.00		45	41	43	86	3	05	29.29	30.28	07	CLR	NC	10.00		26	20	24	78	0	00	29.37	30.40				
10	CLR	NC	10.00		50	39	45	66	12	05	29.36	30.35	10	CLR	NC	10.00		35	22	30	59	0	00	29.42	30.44				
13	CLR	NC	10.00		56	40	48	55	7	VR	29.36	30.35	13	CLR	NC	10.00		49	21	38	33	0	00	29.37	30.38				
16	CLR	NC	10.00		59	41	50	51	6	04	29.31	30.29	16	CLR	NC	10.00		52	20	39	28	0	00	29.34	30.36				
19	CLR	NC	10.00		51	41	46	69	6	06	29.31	30.30	19	CLR	NC	10.00		41	27	35	57	0	00	29.36	30.39				
22	CLR	NC	10.00		49	42	46	77	5	01	29.33	30.32	22	CLR	NC	10.00		33	28	31	82	0	00	29.37	30.40				
SUNRISE: 0741					DEC 16				SUNSET: 1725				SUNRISE: 0744					DEC 22				SUNSET: 1727							
01	CLR	NC	10.00		48	42	45	80	3	08	29.31	30.30	01	CLR	NC	10.00		30	27	29	88	0	00	29.36	30.37				
04	CLR	NC	10.00		47	42	45	83	5	06	29.35	30.33	04	CLR	NC	10.00		28	26	27	92	0	00	29.37	30.38				
07	CLR	NC	10.00		45	42	44	90	0	00	29.38	30.37	07	CLR	NC	10.00		27	25	26	92	0	00	29.36	30.39				
10	CLR	NC	10.00		49	42	46	77	0	00	29.37	30.36	10	CLR	NC	10.00		35	30	33	82	0	00	29.41	30.43				
13	CLR	NC	10.00		60	40	50	48	0	00	29.29	30.28	13	CLR	NC	10.00		50	22	39	33	5	VR	29.32	30.33				
16	OVC	075	10.00		62	39	51	43	6	21	29.23	30.21	16	CLR	NC	10.00		55	25	42	31	5	27	29.24	30.25				
19	CLR	NC	10.00		56	38	47	51	0	00	29.20	30.19	19	CLR	NC	10.00		42	30	37	62	0	00	29.22	30.24				
22	OVC	075	10.00		53	41	47	64	3	21	29.17	30.16	22	CLR	NC	10.00		41	30	37	65	3	23	29.18	30.19				
SUNRISE: 0742					DEC 17				SUNSET: 1725				SUNRISE: 0745					DEC 23				SUNSET: 1728							
01	FEW	NC	10.00		53	43	48	69	3	VR	29.13	30.11	01	CLR	NC	10.00		40	30	36	68	3	24	29.13	30.13				
04	OVC	042	10.00		53	47	50	80	0	00	29.07	30.03	04	BKN	080	10.00		41	31	37	67	0	00	29.07	30.06				
07	OVC	030	10.00		54	48	51	80	3	23	29.02	29.99	07	OVC	075	7.00	RA	41	39	40	93	0	00	29.08	30.07				
10	OVC	028	10.00		58	52	55	81	8	26	28.93	29.90	10	OVC	045	5.00	-RA BR	44	43	44	96	0	00	29.02	30.01				
13	OVC	023	1.75	RA BR	57	56	56	96	3	25	28.86	29.83	13	OVC	030	2.00	RA BR	49	48	48	97	10	25	28.96	29.94				
16	OVC	009	8.00	-RA	58	57	57	97	0	00	28.74	29.71	16	OVC	060	10.00		50	48	49	93	6	VR	28.94	29.93				
19	OVC	014	10.00		59	58	58	96	6	VR	28.69	29.65	19	CLR	NC	10.00		47	38	43	71	3	24	29.01	30.00				
22	OVC	028	10.00		53	47	50	80	10	25	28.77	29.74	22	CLR	NC	10.00		42	34	39	73	3	23	29.05	30.04				
SUNRISE: 0742					DEC 18				SUNSET: 1725				SUNRISE: 0745					DEC 24				SUNSET: 1728							
01	OVC	030	10.00		51	45	48	80	3	26	28.85	29.82	01	CLR	NC	10.00		38	24	33	57	5	29	29.06	30.05				
04	OVC	020	10.00	-RA	49	45	47	86	5	27	28.92	29.89	04	CLR	NC	10.00		31	27	29	85	0	00	29.04	30.04				
07	SCT	NC	10.00		47	38	43	71	0	00	29.00	29.97	07	CLR	NC	10.00		31	22	28	69	6	VR	29.06	30.06				
10	CLR	NC	10.00		48	36	43	63	5	VR	29.04	30.02	10	CLR	NC	10.00		33	20	29	59	7	VR	29.11	30.13				
13	CLR	NC	10.00		53	35	45	51	0	00	29.01	29.98	13	CLR	NC	10.00		39	18	32	43	9	22	29.05	30.04				
16	CLR	NC	10.00		55	34	45	45	0	00	28.98	29.95	16	CLR	NC	10.00		41	13	31	32	3	VR	29.05	30.06				
19	CLR	NC	10.00		46	38	42	73	0	00	28.99	29.97	19	CLR	NC	10.00		35	14	28	42	6	27	29.10	30.12				
22	CLR	NC	10.00		39	37	38	93	0	00	28.99	29.98	22	CLR	NC	10.00		28	19	25	69	0	00	29.11	30.14				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

DECEMBER 2001

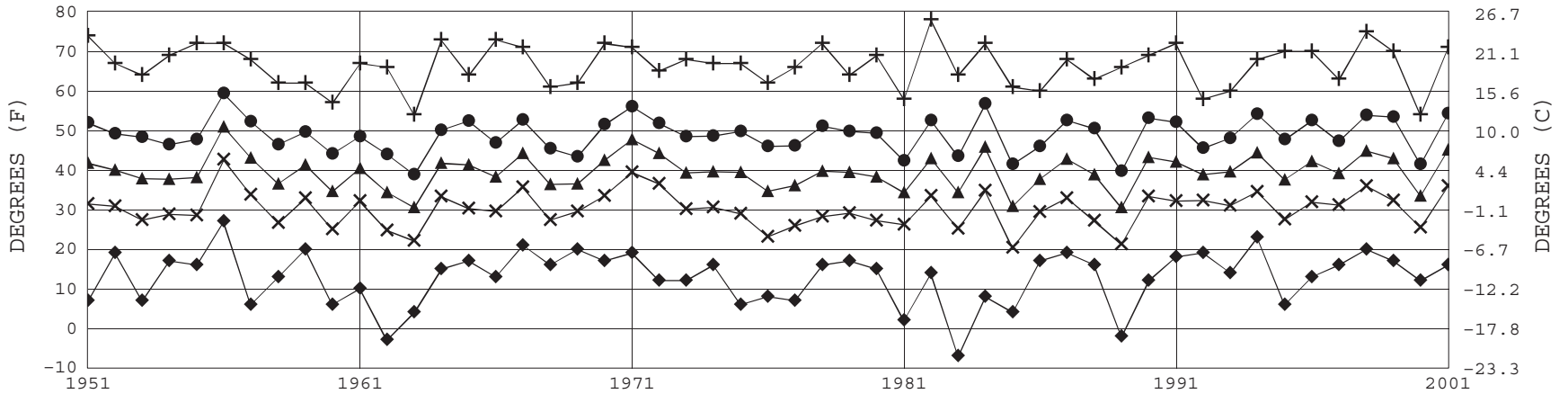
QQT

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)																	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																										
SUNRISE: 0746								DEC 25								SUNSET: 1729								SUNRISE: 0747								DEC 31								SUNSET: 1733							
01	CLR	NC				10.00		25	20	23	81	0	00	29.11	30.14	01	OVC	120					10.00		27	12	23	53	0	00	29.25	30.28															
04	CLR	NC				10.00		22	19	21	89	0	00	29.13	30.16	04	CLR	NC				10.00		21	15	19	78	0	00	29.26	30.30																
07	CLR	NC				10.00		23	21	22	92	0	00	29.14	30.17	07	CLR	NC				10.00		20	12	18	71	3	06	29.25	30.29																
10	CLR	NC				10.00		29	19	26	66	0	00	29.16	30.20	10	CLR	NC				10.00		24	14	21	65	3	07	29.28	30.32																
13	CLR	NC				10.00		37	14	29	39	3	VR	29.05	30.07	13	CLR	NC				10.00		29	14	24	54	0	00	29.22	30.25																
16	CLR	NC				10.00		36	14	29	40	5	VR	29.06	30.08	16	SCT	NC				10.00		31	13	25	47	0	00	29.18	30.22																
19	OVC	075				10.00		33	13	27	43	0	00	29.05	30.08	19	CLR	NC				10.00		26	15	23	63	0	00	29.20	30.25																
22	CLR	NC				10.00		27	17	24	66	0	00	29.03	30.06	22	CLR	NC				10.00		21	14	19	74	0	00	29.21	30.25																
SUNRISE: 0746								DEC 26								SUNSET: 1730								3-HOURLY OBSERVATION NOTES																							
01	CLR	NC				10.00		23	18	21	81	0	00	29.04	30.06	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.																															
04	CLR	NC				10.00		19	16	18	88	0	00	29.01	30.04	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	CLR	NC				10.00		17	15	16	92	0	00	29.02	30.05	NC = No ceiling detected.																															
10	CLR	NC				10.00		25	16	22	69	0	00	29.04	30.07	& = Original observation contained additional weather elements.																															
13	CLR	NC				10.00		33	7	25	33	9	25	28.96	29.98	See page 3 for additional notes.																															
16	SCT	NC				10.00		36	6	27	28	8	27	28.93	29.95																																
19	BKN	060				10.00		30	9	24	41	0	00	28.94	29.98																																
22	OVC	070				10.00		31	14	26	49	3	VR	28.96	29.98																																
SUNRISE: 0746								DEC 27								SUNSET: 1730								SUMMARY BY HOUR																							
01	OVC	055				10.00		31	15	26	52	3	VR	28.95	29.96	AVERAGES																															
04	OVC	042				10.00		29	13	24	51	9	26	28.95	29.97	RESULTANT WIND (MPH)																															
07	CLR	NC				10.00		26	14	22	60	5	23	28.95	29.98	HOUR (LST)																															
10	CLR	NC				10.00		30	16	25	56	10	21	28.98	30.00	CEILOMETER																															
13	FEW	NC				10.00		36	15	29	42	14	21	28.92	29.93	EFF CLD AMT																															
16	CLR	NC				10.00		39	16	31	39	12	19	28.87	29.88	DRY BULB																															
19	CLR	NC				10.00		34	18	28	52	0	00	28.88	29.90	DEW POINT																															
22	CLR	NC				10.00		27	19	24	72	0	00	28.91	29.93	WET BULB																															
SUNRISE: 0747								DEC 28								SUNSET: 1731								RELATIVE HUMIDITY																							
01	CLR	NC				10.00		27	20	25	75	5	22	28.90	29.91	PRESSURE (INCHES, HG)																															
04	CLR	NC				10.00		28	20	25	72	0	00	28.88	29.89	STATION																															
07	SCT	NC				10.00		31	21	27	67	3	VR	28.87	29.88	SEA LEVEL																															
10	FEW	NC				10.00		34	24	30	67	5	VR	28.91	29.92	VISIBILITY (MILES)																															
13	FEW	NC				10.00		44	28	37	53	9	25	28.82	29.83	WIND SPEED (MPH)																															
16	CLR	NC				10.00		49	29	40	46	9	22	28.78	29.78	SPEED																															
19	CLR	NC				10.00		45	25	37	46	7	28	28.85	29.85	DIRECTION																															
22	CLR	NC				10.00		35	26	32	70	3	VR	28.87	29.88																																
SUNRISE: 0747								DEC 29								SUNSET: 1732																															
01	CLR	NC				10.00		33	25	30	72	3	VR	28.86	29.86																																
04	CLR	NC				10.00		32	27	30	82	3	20	28.87	29.86																																
07	CLR	NC				10.00		35	30	33	82	3	22	28.86	29.86																																
10	BKN	110				10.00		42	27	36	55	8	26	28.95	29.95																																
13	CLR	NC				10.00		44	24	36	45	8	25	28.98	29.97																																
16	CLR	NC				10.00		37	18	30	46	9	24	29.06	30.07																																
19	CLR	NC				10.00		30	14	25	51	6	VR	29.12	30.14																																
22	CLR	NC				10.00		26	15	23	63	0	00	29.18	30.20																																
SUNRISE: 0747								DEC 30								SUNSET: 1732																															
01	CLR	NC				10.00		22	15	20	75	0	00	29.20	30.22																																
04	CLR	NC				10.00		21	11	18	65	5	01	29.23	30.26																																
07	CLR	NC				10.00		18	11	16	74	0	00	29.27	30.31																																
10	CLR	NC				10.00		24	9	20	52	5	09	29.30	30.35																																
13	CLR	NC				10.00		31	9	24	40	0	00	29.25	30.29																																
16	CLR	NC				10.00		34	8	26	34	0	00	29.22	30.25																																
19	CLR	NC				10.00		29	11	24	47	0	00	29.22	30.26																																
22	SCT	NC				10.00		29	11	24	47	3	26	29.26	30.29																																



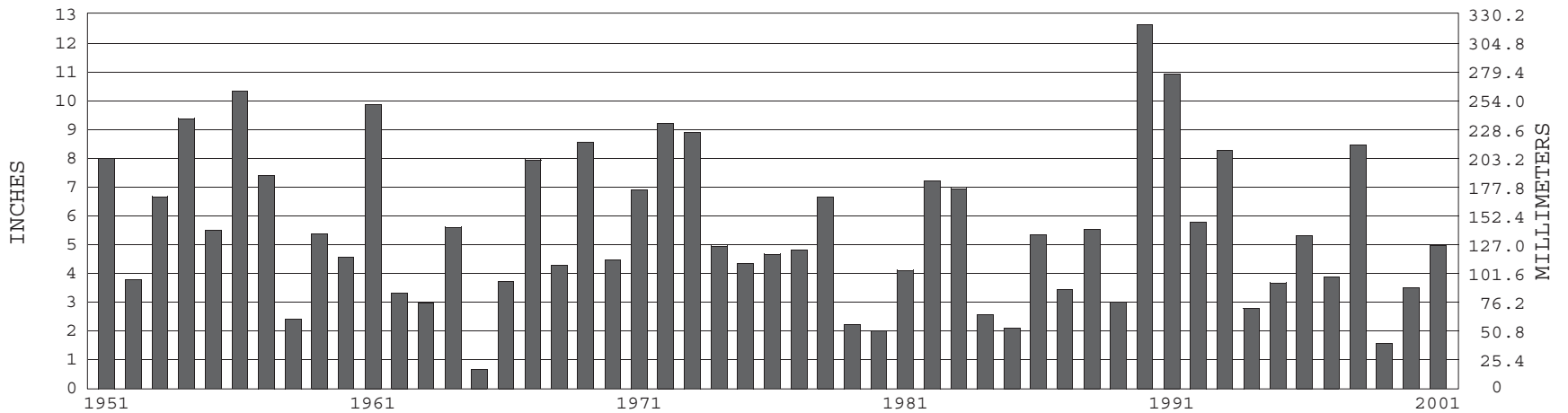
### OAK RIDGE, TN DECEMBER TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1951-2001) Mean: 39.6      1961-1990 Normal: 38.6

### OAK RIDGE, TN DECEMBER PRECIPITATION



Long-Term (1951-2001) Mean Monthly Total: 5.52

1961-1990 Normal: 5.30



DECEMBER 2001

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

NCDC now offers an annual online subscription for the **Edited Local Climatolgical Data Publication**. When you purchase this subscriptionservice, you will have **immediate online access** to all previous publications backto July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total costis \$24 for online delivery (including back issues) compared to \$32 for offline delivery.** To order this and other subscriptions online with your credit card, go to: [www.ncdc.noaa.gov/mpp.html](http://www.ncdc.noaa.gov/mpp.html) and choose subscriptions.

We welcome your questions or comments, please contact us at  
Toll Free Number (866) 742–3322 (voice)  
Fax Number :(304) 726–4409  
TDD : 828–271–4010  
or Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)  
Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center  
310 State Route 956 Building 300  
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS  
POSTAGE AND FEES PAID  
NOAA  
PERMIT G-19