



APRIL 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 #: -

APRIL 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					
																			SPEED	DIR	SPEED	DIR				
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	54	39	47	-6	28	40	18	0	RA BR				0.08	28.92	29.90	5.2	29	6.4	30*	29	20	33	01			
02	59	39	49	-4	33	42	16	0	RA				T	29.14	30.12	1.6	08	3.2	12	06	9	06	02			
03	54	46	50	-3	48	49	15	0	RA BR				0.18	29.08	30.06	1.7	05	2.6	18	02	13	01	03			
04	74	52	63	9	53	57	2	0	BR				0.00	29.18	30.15	2.3	09	4.5	14	09	12	06	04			
05	65	57	61	7	53	57	4	0	RA BR HZ				T	29.27	30.23	2.9	23	5.0	15	21	12	22	05			
06	77	56	67	13	56	59	0	2	BR HZ				0.00	29.19	30.15	3.7	24	5.0	18	21	14	20	06			
07	83	58	71	17	57	62	0	6	BR				0.00	29.15	30.09	5.9	22	6.5	25	22	16	22	07			
08	85	57	71	16	57	63	0	6	BR				0.00	29.13	30.07	3.6	22	5.1	20	20	14	21	08			
09	85	58	72	17	59	64	0	7					0.00	29.04		2.2	24	3.9	17	22	13	26	09			
10	89*	60	75*	20	60	65	0	10	BR				0.00	29.01	29.94	1.6	23	3.4	17	27	14	21	10			
11	85	63	74	18	59	65	0	9					0.00	29.00	29.93	5.6	21	5.9	24	21	17	21	11			
12	75	63	69	13	62	65	0	4	RA BR				0.67	29.08	30.02	4.3	22	5.9	21	21	15	21	12			
13	75	56	66	10	57	60	0	1	RA BR				0.72	29.12	30.07	1.5	05	2.4	14	01	10	02	13			
14	74	49	62	6	52	56	3	0	FG+ BR				0.00	29.12	30.08	1.7	18	2.0	13	17	10	18	14			
15	74	56	65	8	54	58	0	0	RA BR				0.51	28.89	29.84	2.7	27	5.0	25	27	15	26	15			
16	68	47	58	1	35	47	7	0					0.00	29.06	30.02	3.1	34	6.8	23	28	17	26	16			
17	53	36	45*	-12	25	36	20	0	RA SN				T	29.17	30.16	5.1	32	7.6	26	01	20	35	17			
18	59	33	46	-12	25	37	19	0					0.00	29.29	30.30	1.1	35	3.2	18	01	13	36	18			
19	66	31*	49	-9	32	42	16	0					0.00	29.29	30.29	1.3	20	2.1	17	18	13	19	19			
20	70	43	57	-1	39	49	8	0	RA				T	29.29	30.26	3.5	22	4.7	22	22	16	20	20			
21	77	53	65	7	51	58	0	0					0.00	29.35	30.31	4.7	22	5.6	24	19	20*	19	21			
22	83	54	69	11	55	61	0	4					0.00	29.35	30.30	1.9	23	3.3	17	18	13	18	22			
23	81	60	71	12	57	63	0	6					0.00	29.21	30.15	5.3	22	6.2	24	23	17	21	23			
24	67	56	62	3	48	55	3	0					0.00	29.17	30.13	1.6	02	4.6	14	33	10	34	24			
25	70	48	59	-1	34	47	6	0					0.00	29.21	30.18	2.3	03	5.6	20	05	14	07	25			
26	72	40	56	-4	37	47	9	0					0.00	29.26	30.23	0.5	15	1.8	15	18	10	18	26			
27	79	41	60	0	44	52	5	0					0.00	29.23	30.20	1.4	17	2.4	14	15	10	16	27			
28	83	50	67	7	45	55	0	2	BR				0.00	29.26	30.22	3.1	06	4.1	20	06	16	07	28			
29	82	49	66	6	43	54	0	1					0.00	29.35	30.31	1.3	12	4.6	16	19	13	18	29			
30	79	55	67	6	54	59	0	2	RA HZ				T	29.35	30.31	1.9	23	3.5	17	01	12	18	30			
< MONTHLY AVERAGES											TOTALS-->				<- MONTHLY AVERAGES											
3.3											6.7				4.9											
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.38				DATE: 12-13				SEA LEVEL PRESSURE				DATE TIME			
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL:				MINIMUM				: 30.40				22 0753			
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH:				MINIMUM				: 29.69				01 0453			
HEATING: 151 -101 3865 -222											NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 1				PRECIPITATION ≥ 0.01 INCH: 5			
COOLING: 60 54 60 54											MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 4							
											THUNDERSTORMS: 0				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH: :							

DEPARTURE FROM NORMAL

SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

APRIL 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				T	0.01	0.06	0.01	T	T				01												01		0.08		
02				T	0.01	0.02	0.01	0.04	0.05	0.02	0.02		02											T	02		T		
03				T	0.01	0.02	0.01	0.04	0.05	0.02	0.02		03					T	0.01					T	03		0.18		
04				T	0.01	0.02	0.01	0.04	0.05	0.02	0.02		04					T	0.01					T	04		0.00		
05			T										05					T			T			T	05		T		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.67		
13	0.04	0.07	0.01	0.22	0.18	0.11	0.08	0.02	0.01	T			13	0.14	0.02	0.01								T	0.04	0.07	0.08	0.08	0.72
14													14												14		0.00		
15						0.01	0.07	0.06	0.12	0.25	T		15												15		0.51		
16													16												16		0.00		
17													17												17		T		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		T		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
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		T		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.08	.11	.14	.17	.23	.29	.31	.38	.40	.43	.48	.54
Ending Date	15	12	12	12	12	12	13	13	13	13	13	13
Ending Time (Hour/Min)	0831	1157	1202	1204	1204	1214	0425	0432	0456	0517	0556	0617

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 APRIL 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							2.50	10.00	
02							10.00	10.00	
03							1.50	10.00	
04							3.00	10.00	
05							5.00	10.00	
06							5.00	10.00	
07							5.00	10.00	
08							5.00	10.00	
09							.00	10.00	
10							6.00	10.00	
11							8.00	10.00	
12							.75	10.00	
13							2.00	10.00	
14							.25	10.00	
15							1.50	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							8.00	10.00	
28							5.00	10.00	
29							10.00	10.00	
30							6.00	10.00	
MONTHLY AVGS							6.87	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 1 6 16									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

APRIL 2001

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	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)		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	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL					
01	CLR	NC			10.00	SUNRISE: 0551	55	36	46	49	6	02	29.21	30.18																				
04	CLR	NC			10.00	APR 25	52	35	44	53	7	VR	29.20	30.17																				
07	CLR	NC			10.00		50	36	44	59	3	VR	29.24	30.21																				
10	CLR	NC			10.00		59	34	47	39	6	VR	29.24	30.21																				
13	CLR	NC			10.00		66	34	50	31	6	VR	29.21	30.17																				
16	CLR	NC			10.00		69	29	50	22	5	VR	29.16	30.13																				
19	CLR	NC			10.00		62	28	47	28	5	VR	29.19	30.16																				
22	CLR	NC			10.00		54	34	45	47	0	00	29.24	30.22																				

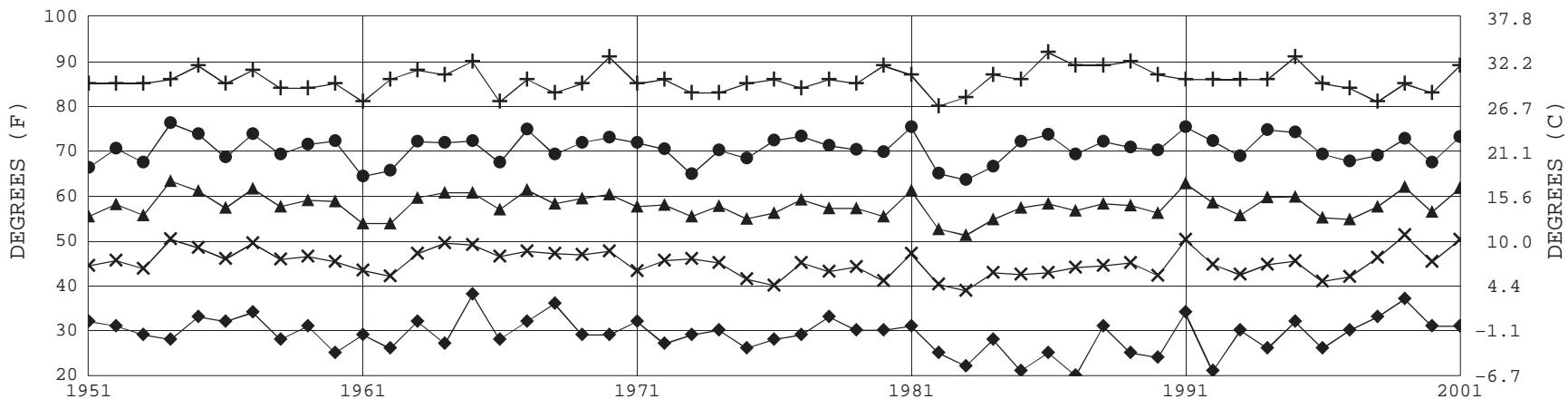
01	CLR	NC			10.00	SUNRISE: 0550	47	37	42	69	0	00	29.25	30.23																			
04	CLR	NC			10.00	APR 26	45	36	41	71	0	00	29.24	30.22																			
07	CLR	NC			10.00		44	37	41	76	0	00	29.30	30.28																			
10	CLR	NC			10.00		61	32	48	34	5	VR	29.33	30.30																			
13	CLR	NC			10.00		67	32	50	27	5	VR	29.29	30.27																			
16	CLR	NC			10.00		70	35	53	28	5	05	29.22	30.19																			
19	CLR	NC			10.00		68	37	52	32	3	19	29.20	30.18																			
22	CLR	NC			10.00		54	41	48	62	0	00	29.24	30.21																			

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, VV = 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			56	47	52	73	29.16	30.12	9.37	2	1	30		
02			55	47	51	75	29.15	30.11	9.30	2	1	36		
03			54	47	51	77	29.15	30.11	9.13	2	0	0		
04			53	47	50	79	29.16	30.12	9.10	1	0	0		
05			53	46	50	80	29.16	30.12	9.10	1	0	0		
06			52	47	49	83	29.18	30.14	8.77	2	1	22		
07			53	47	50	82	29.20	30.16	8.11	1	0	0		
08			55	47	51	76	29.21	30.17	9.00	3	1	33		
09			59	48	53	67	29.22	30.18	9.33	3	0	0		
10			62	47	54	61	29.22	30.18	9.48	5	3	24		
11			64	47	55	56	29.22	30.18	9.66	4	1	28		
12			66	47	56	54	29.20	30.17	9.41	4	2	23		
13			69	48	57	50	29.18	30.14	9.57	6	3	22		
14			70	47	58	46	29.17	30.12	9.67	5	3	23		
15			71	47	58	44	29.15	30.10	9.73	6	4	22		
16			72	46	58	43	29.13	30.09	9.70	6	3	22		
17			71	46	57	44	29.13	30.09	9.60	6	4	22		
18			70	46	57	45	29.13	30.10	9.63	6	3	23		
19			68	46	56	49	29.14	30.10	9.42	4	2	22		
20			65	47	56	55	29.15	30.11	9.50	3	1	23		
21			63	48	55	61	29.17	30.13	9.53	2	1	25		
22			61	48	54	65	29.18	30.15	9.40	2	1	27		
23			59	48	53	69	29.18	30.14	9.33	2	1	33		
24			58	48	53	70	29.18	30.14	9.27	2	1	25		

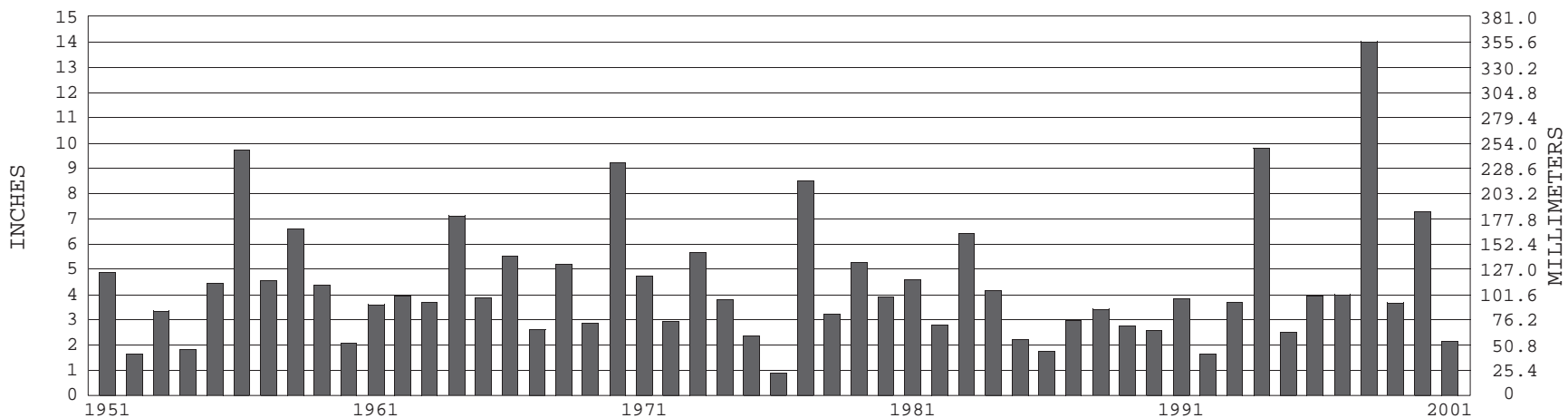
OAK RIDGE, TN APRIL TEMPERATURES



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

Long-Term (1951-2001) Mean: 57.8 1961-1990 Normal: 56.8

OAK RIDGE, TN APRIL PRECIPITATION



Long-Term (1951-2001) Mean Monthly Total: 4.36

1961-1990 Normal: 4.08



APRIL 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

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