



FEBRUARY 1999

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN

ATDL (OAKT)
 Lat: 36°00' N Long: 84°15' W Elev (Ground): 880 Feet
 Time Zone: EASTERN WBAN: 03841 ISSN #: 0198-487X

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																																																												
										DEPTH	WATER EQUIV	SNOW-FALL	WATER EQUIV						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	48	40	44	8			21	0		0		0.0	0.34					2.2	10	08			01																																																								
02	52	44	48	12			17	0		0		0.0	T					4.3	15	26			02																																																								
03	59	31	45	9			20	0		0		0.0	T					2.6	15	23			03																																																								
04	60	37	49	13			16	0		0		0.0	0.00					5.3	29	28			04																																																								
05	63	29	46	9			19	0		0		0.0	0.00					2.6	13	08			05																																																								
06	58	33	46	9			19	0		0		0.0	0.00					2.6	18	24			06																																																								
07	69	46	58	21			7	0		0		0.0	0.37					5.6	35*	27			07																																																								
08	65	36	51	14			14	0		0		0.0	0.00					2.5	13	06			08																																																								
09	71	36	54	17			11	0		0		0.0	0.33					2.5	15	05			09																																																								
10	69	50	60	23			5	0		0		0.0	T					3.1	12	07			10																																																								
11	73*	52	63*	25			2	0		0		0.0	0.00					3.2	20	21			11																																																								
12	68	28	48	10			17	0		0		0.0	0.19					6.3	30	28			12																																																								
13	36	25	31	-7			34	0		T		0.5	0.06					5.5	25	35			13																																																								
14	45	18	32	-6			33	0		T		0.0	0.00					2.5	13	08			14																																																								
15	58	23	41	2			24	0		0		0.0	0.00					1.7	13	25			15																																																								
16	64	28	46	7			19	0		0		0.0	0.00					3.1	25	23			16																																																								
17	54	42	48	9			17	0		0		0.0	0.70					3.1	16	25			17																																																								
18	54	33	44	5			21	0		0		0.0	0.00					3.6	15	07			18																																																								
19	43	36	40	0			25	0		0		0.0	0.21					3.5	14	07			19																																																								
20	54	27	41	1			24	0		0		0.0	0.00					3.0	15	35			20																																																								
21	36	24	30	-10			35	0		0		T	T					6.0	22	36			21																																																								
22	41	17*	29*	-12			36	0		0		0.0	0.00					3.1	17	08			22																																																								
23	45	31	38	-3			27	0		0		1.0	0.13					3.9	24	18			23																																																								
24	40	31	36	-5			29	0		1		T	T					1.6	11	27			24																																																								
25	58	31	45	3			20	0		0		0.0	0.00					3.7	15	24			25																																																								
26	59	29	44	2			21	0		0		0.0	0.00					2.8	12	06			26																																																								
27	53	37	45	3			20	0		0		0.0	1.23					1.7	9	27			27																																																								
28	55	39	47	4			18	0		0		0.0	0.31					7.4	34	29			28																																																								
										55.4				33.3		44.4		■ ■		20.4		0.0		< MONTHLY AVERAGES TOTALS-->				1.5		3.87						3.5		<-- MONTHLY AVERAGES																																									
										5.6		5.6		5.6		■ ■		<----- DEPARTURE FROM NORMAL ----->										-		.47		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																															
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.23 DATE :27										SEA LEVEL PRESSURE DATE TIME																																																											
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 1.0 DATE :23										MAXIMUM :																																																	
HEATING: 571										-163										2389										-916										MINIMUM :																																							
COOLING: 0										0										0										0										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 14										PRECIPITATION ≥ 0.01 INCH : 10									
																																								MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 9																			
																																																		THUNDERSTORMS : 0										HEAVY FOG : 0										SNOWFALL ≥ 1.0 INCH : 1									

FEBRUARY 1999
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

FEBRUARY 1999

OAKT

WBAN # 03841

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different	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	0.06	0.08	0.02	0.06	0.02	0.04	0.01	0.02	0.01	0.01	0.01		01												01		0.34		
02													02												02		T		
03		T											03												03		T		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07		0.06	0.05								0.05	0.19	0.02	07											07		0.37		
08														08											08		0.00		
09														09			0.09	0.06	0.14	0.04					09		0.33		
10														10											10		T		
11														11											11		0.00		
12														12	0.08										12		0.19		
13	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.06	0.01		13												13		0.06		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17			0.04	0.19	0.14	0.03		0.07	0.04				17		0.09	0.02	0.01	0.07						17		0.70			
18													18												18		0.00		
19								0.01					19	0.02	0.01										19		0.21		
20										0.05	0.09	0.03	20												20		0.00		
21	T												21												21		T		
22													22												22		0.00		
23													23							0.05	0.04	0.03	0.01	23		0.13			
24	T												24												24		T		
25													25												25		0.00		
26													26												26		0.00		
27											0.02	0.04	27	0.02	0.01										27		1.23		
28	0.21	0.07		0.03									28			0.05	0.05	0.09	0.01	0.02	0.04	0.36	0.35	0.17	28		0.31		

MAXIMUM SHORT DURATION PRECIPITATION

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.

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 0.25 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 FEBRUARY 1999

Sky Cover is the mean cloud cover observed from 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 SR–SS sky cover.
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.

ADDITIONAL NOTES:

Maximum short duration precipitation data not recorded.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			SKY COVER	SATELLITE	SKY COVER	SATELLITE			
01									
02									
03									
04									
05									
06									
07									
08									
09									
10									
11									
12									
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19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
MONTHLY AVGS									
SUNSHINE (MINUTES)									
Total:					Possible:				
					Percent Possible:				
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR		PTLY CLDY		CLOUDY		MISSING		28	
MINIMUM VISIBILITY (MILES)									
<=0.25			<=3.0			>=7.0			



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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

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at
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828–271–4010(TDD)
or orders@ncdc.noaa.gov
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