



# JANUARY 2000

## 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 #: -

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	63	38	51	16	46	48	14	0	BR			0.00	29.20	30.18	0.4	27	1.9	12	27	8	26	01		
02	67	46	57	22	54	56	8	0	BR			0.00	29.17	30.14	3.6	23	5.7	26	23	18	23	02		
03	72*	58	65*	30	58	61	0	0	RA BR			0.21	29.03	29.99	5.8	21	6.7	24	19	18	20	03		
04	63	35	49	14	44	48	16	0	RA BR UP			1.23	28.97	29.94	6.6	26	8.1	28	18	20	18	04		
05	39	27	33	-2	29	31	32	0				0.00	29.37	30.39	2.6	36	4.1	14	01	10	07	05		
06	49	22	36	1			29	0	FG+ FZFG BR HZ			0.00	29.42	30.45	1.2	24	1.8	14	27	10	27	06		
07	54	25	40	5	26	32	25	0	FG+ FZFG BR			0.00	29.44	30.46	0.2	05	.9	9	02	7	36	07		
08	46	26	36	1	28	33	29	0				0.00	29.30	30.32	0.5	09	.9	8	05	6	09	08		
09	45	38	42	7	41	42	23	0	RA FG+ BR			0.75	29.00	30.00	0.4	13	.9	9	12	8	12	09		
10	59	39	49	14	37	45	16	0	RA FG+ BR			0.56	28.82	29.80	4.7	24	5.4	32	26	20	26	10		
11	61	32	47	12	25	37	18	0				0.00	29.06	30.05	5.1	25	5.7	25	26	16	27	11		
12	58	29	44	9	32	39	21	0				0.00	29.17	30.17	0.3	23	3.9	14	23	10	06	12		
13	58	35	47	12	35	43	18	0	RA FG BR			0.33	29.27	30.26	4.8	31	6.9	29	28	17	29	13		
14	40	25	33	-2	18	28	32	0				0.00	29.70	30.74	2.8	02	4.0	17	03	13	04	14		
15	52	20	36	2	21	30	29	0				0.00	29.57	30.60	3.1	23	3.3	18	21	14	22	15		
16	47	38	43	8	38	42	22	0	RA BR HZ			0.04	29.40	30.41	2.5	23	3.5	10	24	8	21	16		
17	46	33	40	5	27	35	25	0	RA BR			0.18	29.38	30.39	6.0	05	6.8	18	04	15	06	17		
18	44	30	37	2	36	36	28	0	RA BR			0.53	29.10	30.11	0.5	04	1.9	10	02	8	02	18		
19	42	28	35	0	30	33	30	0	RA FG+ FZFG BR UP			0.39	29.01	30.02	0.3	06	.9	12	07	9	07	19		
20	43	22	33	-2	24	30	32	0	RA SN BR			0.02	28.96	29.97	4.5	29	6.6	35*	26	21*	27	20		
21	33	15	24	-11	9	19	41	0				0.00	29.23	30.28	1.4	34	2.3	21	34	15	34	21		
22	30	20	25	-10	23	24	40	0	RA FZRA SN FG+ FZFG BR			0.25	29.14	30.18	1.2	05	1.8	12	05	9	06	22		
23	36	29	33	-2	33	33	32	0	RA FZRA BR UP			0.01	29.05	30.07	2.1	03	2.3	12	36	9	01	23		
24	37	22	30	-5	26	30	35	0				0.00	29.06	30.08	7.0	02	7.5	23	01	17	01	24		
25	32	15	24	-11	11	20	41	0	SN BR			T	28.96	29.99	1.2	31	3.6	17	36	13	34	25		
26	29	20	25	-10	10	20	40	0				0.00	29.17	30.21	5.0	35	5.9	20	33	14	35	26		
27	30	13*	22*	-13	9	19	43	0				0.00	29.42	30.48	5.2	06	5.2	17	05	14	07	27		
28	40	21	31	-4	11	24	34	0				0.00	29.50	30.55	6.6	05	6.8	17	02	13	06	28		
29	37	33	35	0			30	0	RA BR			0.44	29.35	30.37	3.1	05	3.4	14	06	10	06	29		
30	40	29	35	0			30	0	RA BR UP HZ			0.04	29.22	30.24	4.0	25	6.1	21	28	15	28	30		
31	33	26	30	-6	21	27	35	0	SN BR			T	29.22	30.25	3.3	26	5.3	18	27	12	26	31		
46.0		28.7	37.4	■ ■			27.4	0.0	< MONTHLY AVERAGES		TOTALS-->		4.98	29.22	30.23	0.9	31	4.2	<- MONTHLY AVERAGES					
1.2	3.6	2.4	■ ■	<----- DEPARTURE FROM NORMAL ----->										0.41	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.44 DATE: 03-04				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:				MAXIMUM				:		14 1053					
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH:				MINIMUM				:		20 0153					
HEATING: 848 -82 2103 -468									NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 21				PRECIPITATION ≥ 0.01 INCH: 14			
COOLING: 0 0 0 0													MAXIMUM TEMP ≤ 32: 4				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 10			
													THUNDERSTORMS: 0				HEAVY FOG: 6				SNOWFALL ≥ 1.0 INCH: 0			

JANUARY 2000  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

JANUARY 2000

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					T			T	0.01	T			03	0.01										0.01	0.03	0.14	0.20	0.00	
04	0.09	0.22	0.38	0.29	0.20	0.05	0.01						04											T	0.21	1.23	0.21		
05													05														1.24	0.00	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09		T	T	0.02	0.03	0.05	0.12	0.09	0.08	0.23	0.10	0.02	09			0.01								09			0.75		
10	0.01		0.18	0.20	0.14	0.03	T						10											10			0.56		
11													11											11			0.00		
12					0.03	0.29	T		0.01				12											12			0.00		
13													13											13			0.33		
14													14											14			0.00		
15													15											15			0.00		
16								T	T	T	T	0.01	0.02	16	0.01									16			0.04		
17														17						T	0.01	T	0.03	0.13	17	0.17	0.18		
18	0.07	0.08	0.14	0.16	0.06	0.01	0.02	T						18										18	0.54	0.53	0.53		
19														19					T	0.04	0.07	0.18	0.06	0.03	19	0.38	0.39		
20	0.02	0.01	T	T						T	T	T	T	20	T	T								20	0.03	0.02	0.02		
21														21											21			0.00	
22										T	0.01	T	0.01	22	T	0.01	0.02	0.05	0.08	0.02	0.01	T	0.02	0.01	0.01	22	0.25	0.01	
23	T	T	T	0.01	T									23											23			0.01	
24														24											24			0.00	
25														25						T	T	T			25			T	
26														26											26			0.00	
27														27											27			0.00	
28														28											28			0.00	
29								T	0.01	0.02	0.03	0.01	29	0.02	0.04	0.08	0.06	0.05	0.08	0.03	0.01	T		29			0.44		
30	T	T		0.01	0.01	0.01		0.01					30	T	T									30			0.04		
31								T	T	T	T	T	31	T		T								31			T		

## 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	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 JANUARY 2000

Ceilorometer (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							2.00	10.00	
03							4.00	10.00	
04							1.25	10.00	
05							9.00	10.00	
06							.25	10.00	
07							.25	10.00	
08							10.00	10.00	
09							.25	10.00	
10							.25	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							.50	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							1.50	10.00	
17							1.75	10.00	
18							2.00	10.00	
19							.25	10.00	
20							2.50	10.00	
21							10.00	10.00	
22							.25	10.00	
23							2.00	10.00	
24							10.00	10.00	
25							2.50	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							1.50	10.00	
30							2.00	10.00	
31							2.00	10.00	
<b>MONTHLY AVGS</b>							4.90	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			
5			17			12			





# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

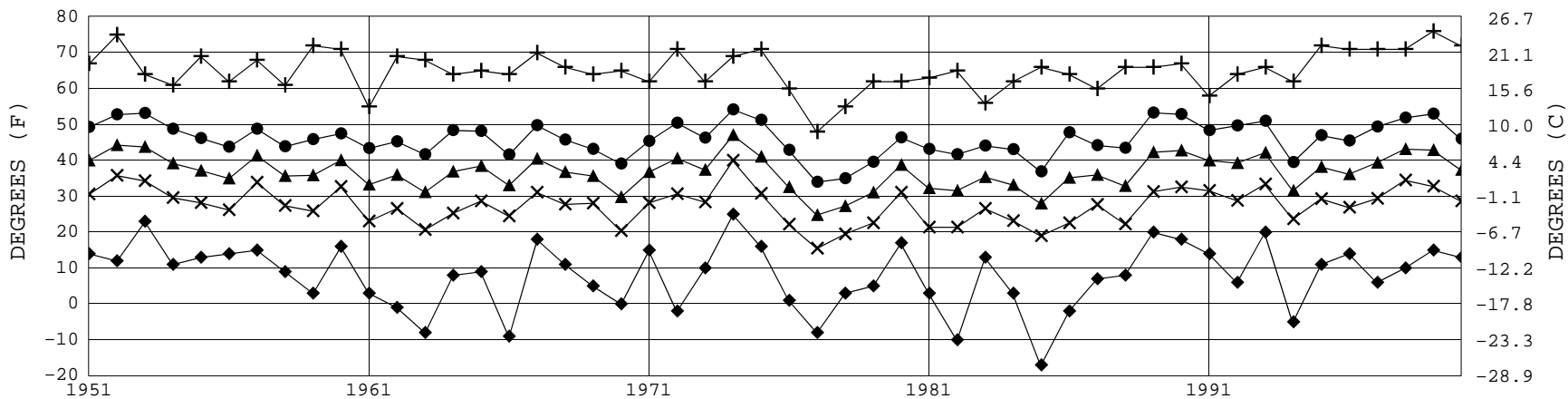
JANUARY 2000

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE ° F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		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: 0743							JAN 25							SUNSET: 1756							SUNRISE: 0739							JAN 31							SUNSET: 1802						
01	CLR	NC			10.00		21	14	19	74	6	06	29.00	30.02	01	OVC	029			10.00		28	21	26	75	9	26	29.22	30.24												
04	CLR	NC			10.00		18	10	16	71	0	00	28.96	29.99	04	BKN	041			10.00		27	15	23	61	3	26	29.19	30.22												
07	CLR	NC			10.00		17	8	15	68	0	00	28.96	29.99	07	OVC	039			10.00		27	20	25	75	5	VR	29.22	30.25												
10	CLR	NC			10.00		21	8	18	57	0	00	28.97	30.00	10	OVC	036			10.00		29	21	26	72	8	24	29.27	30.30												
13	CLR	NC			10.00		27	11	22	51	6	22	28.90	29.93	13	OVC	039			10.00		32	22	28	66	6	26	29.22	30.25												
16	OVC	048			10.00		31	7	24	36	7	30	28.88	29.91	16	OVC	035			10.00		32	20	28	61	8	28	29.18	30.21												
19	OVC	040			6.00	-SN	26	19	24	75	5	VR	28.96	29.99	19	BKN	035			10.00		30	22	27	72	3	20	29.20	30.23												
22	OVC	060			10.00		24	15	21	68	6	26	29.00	30.03	22	CLR	NC			10.00		29	23	27	78	3	VR	29.21	30.24												
SUNRISE: 0742							JAN 26							SUNRISE: 1757							3-HOURLY OBSERVATION NOTES																				
01	OVC	038			10.00		23	14	20	68	8	02	29.02	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	OVC	055			10.00		22	13	19	68	6	32	29.05	30.07	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																										
07	OVC	055			10.00		20	12	18	71	0	00	29.09	30.14	NC= No ceiling detected.																										
10	OVC	060			10.00		24	10	20	55	15	33	29.17	30.22	& = Original observation contained additional weather elements.																										
13	SCT	NC			10.00		28	10	23	47	9	33	29.17	30.21	See page 3 for additional notes.																										
16	OVC	049			10.00		26	7	21	44	6	35	29.19	30.23																											
19	OVC	047			10.00		24	8	20	50	3	02	29.25	30.29																											
22	BKN	045			10.00		22	8	18	55	0	00	29.30	30.35																											
SUNRISE: 0741							JAN 27							SUNRISE: 1758							SUMMARY BY HOUR																				
01	BKN	043			10.00		20	11	17	68	0	00	29.31	30.36	AVERAGES																										
04	CLR	NC			10.00		18	9	16	68	0	00	29.35	30.40	RESULTANT WIND (MPH)																										
07	CLR	NC			10.00		14	11	13	88	0	00	29.40	30.46	HOUR (LST)																										
10	CLR	NC			10.00		21	8	18	57	10	06	29.46	30.52	CEILOMETER																										
13	CLR	NC			10.00		27	10	22	49	13	06	29.45	30.49	EFF CLD AMT																										
16	CLR	NC			10.00		30	7	23	38	8	05	29.43	30.47	DRY BULB																										
19	CLR	NC			10.00		25	8	20	48	3	04	29.47	30.53	DEW POINT																										
22	CLR	NC			10.00		23	8	19	53	6	05	29.48	30.54	WET BULB																										
SUNRISE: 0741							JAN 28							SUNRISE: 1759							PRESSURE (INCHES, HG)																				
01	CLR	NC			10.00		24	8	20	50	9	05	29.49	30.54	STATION																										
04	CLR	NC			10.00		22	10	19	60	12	04	29.50	30.55	SEA LEVEL																										
07	FEW	NC			10.00		22	10	19	60	8	05	29.56	30.61	VISIBILITY (MILES)																										
10	SCT	NC			10.00		24	8	20	50	9	04	29.55	30.61	WIND SPEED (MPH)																										
13	BKN	110			10.00		31	8	24	38	13	06	29.51	30.56	SPEED																										
16	CLR	NC			10.00		38	9	29	30	7	05	29.45	30.50	DIRECTION																										
19	OVC	070			10.00		36	14	29	40	0	00	29.47	30.52																											
22	BKN	070			10.00		36	17	30	46	0	00	29.46	30.51																											
SUNRISE: 0740							JAN 29							SUNRISE: 1800																											
01	OVC	042			10.00		36	18	30	48	3	04	29.45	30.47																											
04	OVC	040			10.00		36	17	30	46	8	05	29.41	30.42																											
07	OVC	042			10.00		36	21	31	55	8	06	29.39	30.41																											
10	OVC	050			10.00	-RA	34	34	34	100	5	03	29.38	30.40																											
13	OVC	022			10.00						3	05	29.34	30.36																											
16	OVC	019			3.00	-RA					0	00	29.29	30.31																											
19	OVC	015			3.00	-RA					0	00	29.31	30.33																											
22	OVC	004			3.00	BR					0	00	29.31	30.33																											
SUNRISE: 0739							JAN 30							SUNRISE: 1801																											
01	OVC	004			3.00	-RA					3	24	29.29	30.31																											
04	OVC	004			2.00	BR					3	21	29.26	30.28																											
07	OVC	004			3.00	BR					3	23	29.24	30.26																											
10	OVC	004			2.50	BR					6	22	29.25	30.27																											
13	OVC	011			10.00		38	38	38	100	6	VR	29.20	30.22																											
16	OVC	028			10.00		38	33	36	83	7	VR	29.15	30.16																											
19	BKN	037			10.00		33	26	30	75	6	VR	29.19	30.21																											
22	OVC	026			10.00		32	26	30	79	12	27	29.22	30.24																											

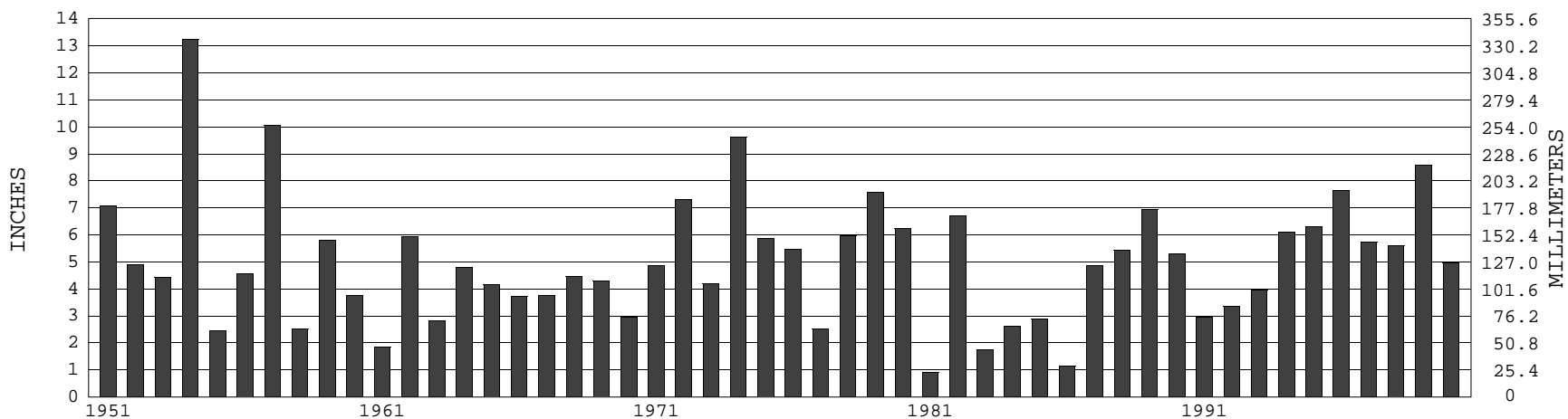
### OAK RIDGE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2000) Mean: 36.8      1961-1990 Normal: 35.0

### OAK RIDGE, TN JANUARY PRECIPITATION



Long-Term (1951-2000) Mean Monthly Total: 5.03

1961-1990 Normal: 4.57



**JANUARY 2000  
OAK RIDGE, TN**

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

## NOTICE

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

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