



# NOVEMBER 2005

## 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 #: -

NOVEMBER 2005  
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		
01	69	42	56	4	46	51	9	0	RA BR				0.01	29.13	30.10	1.4	25	3.1	20	27	14	20	01		
02	66	38	52	0	39	45	13	0	BR				0.00	29.27	30.26	0.6	01	1.5	16	34	12	35	02		
03	71	34	53	1	38	44	12	0	FG+ BR				0.00	29.29	30.28	0.5	25	1.7	16	21	12	21	03		
04	70	49	60	9	49	53	5	0	BR HZ				0.00	29.15	30.12	1.9	23	4.3	18	19	14	20	04		
05	68	54	61	10	54	57	4	0	RA BR HZ				T	29.11	30.07	0.4	19	1.5	16	21	12	20	05		
06	78	50	64	13	53	59	1	0	RA BR				0.04	29.09	30.04	2.8	25	4.4	22	22	16	25	06		
07	75	42	59	9	41	49	6	0					0.00	29.28	30.25	0.0	00	.8	8	28	6	29	07		
08	77	44	61	11	47	52	4	0	RA				T	29.22	30.19	0.1	26	.8	10	27	8	25	08		
09	82*	53	68*	18	56	60	0	3	RA BR				0.26	29.07	30.02	2.5	24	5.0	22	31	14	22	09		
10	62	37	50	1	27	41	15	0	RA				T	29.19	30.16	2.1	35	3.5	15	07	12	32	10		
11	62	30	46	-3	26	37	19	0	BR				0.00	29.26	30.26	0.1	18	.8	8	18	6	17	11		
12	66	32	49	0	29	40	16	0					0.00	29.25	30.24	1.0	21	1.9	15	20	12	20	12		
13	65	45	55	7	45	51	10	0					0.00	29.27	30.25	1.1	25	2.4	9	27	7	29	13		
14	63	59	61	13	58	59	4	0	RA FG+ BR				0.33	29.24	30.21	0.2	21	.4	7	26	5	12	14		
15	74	59	67	19	59	62	0	2	RA FG+ BR				0.01	29.08	30.04	4.8	20	5.3	24	21	16	21	15		
16	68	34	51	3	38	44	14	0	RA BR				1.18	29.18	30.16	4.0	25	6.2	26	24	16	23	16		
17	43	27	35	-12	14	28	30	0					0.00	29.45	30.47	2.5	02	4.1	18	35	14	35	17		
18	48	25	37	-10	15	28	28	0					0.00	29.41	30.44	1.2	05	1.8	9	08	8	08	18		
19	56	24	40	-7	24	34	25	0	FG+ FZFG BR				0.00	29.32	30.34	0.1	05	1.5	8	27	6	19	19		
20	60	33	47	1	32	41	18	0					0.00	29.24	30.24	0.5	16	1.1	9	16	7	17	20		
21	52	41	47	1	41	44	18	0	RA BR				0.60	28.85	29.82	2.1	02	3.7	22	01	14	34	21		
22	45	38	42	-4	29	37	23	0	RA				0.01	28.83	29.82	1.5	31	4.0	20	34	14	34	22		
23	48	29	39	-6	27	35	26	0					0.00	28.78	29.77	3.2	21	4.8	24	20	17	21	23		
24	57	34	46	1	25	37	19	0					0.00	28.79	29.78	4.7	28	6.9	26	26	20	26	24		
25	42	23*	33*	-12	10	25	32	0					0.00	29.23	30.25	2.2	02	3.5	18	01	14	35	25		
26	56	24	40	-4	24	32	25	0					0.00	29.24	30.26	0.1	28	.4	10	22	7	20	26		
27	67	38	53	9	40	46	12	0					0.00	29.06	30.04	1.0	22	2.4	18	19	14	19	27		
28	72	51	62	18	54	57	3	0	RA BR				1.34	28.85	29.81	4.6	19	5.9	38*	21	26*	18	28		
29	58	37	48	4	38	44	17	0	RA BR				0.33	28.92	29.89	5.0	23	6.2	25	28	17	20	29		
30	47	28	38	-5	26	32	27	0					0.00	29.13	30.14	0.6	03	1.2	13	12	8	15	30		
< MONTHLY AVERAGES										TOTALS-->															
3.2										2.1		2.7													
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.66 DATE :28-29				SEA LEVEL PRESSURE		DATE		TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:				MAXIMUM		: 30.53		17 1053							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				MINIMUM		: 29.60		23 1653							
HEATING: 435 -83										NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 9		PRECIPITATION ≥ 0.01 INCH: 10							
COOLING: 5 4														MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 6							
														THUNDERSTORMS: 0		HEAVY FOG: 4		SNOWFALL ≥ 1.0 INCH: :							

SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

NOVEMBER 2005

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					T	T	0.01					01		0.01		
02													02													02		0.00	
03													03													03		0.00	
04													04													04		0.00	
05													05			T										05		0.00	
06					T	0.04					T		06													06		0.04	
07													07													07		0.00	
08											T		08													08		T	
09													09								0.01	0.01	0.21	0.03		09		0.26	
10	T	T											10													10		T	
11													11													11		0.00	
12													12													12		0.00	
13													13													13		0.00	
14													14	0.01	0.08	0.03	0.01	0.01	0.03	0.06	0.01				14		0.33		
15						T	T				T	0.08	15		T				T				0.01		15		0.01		
16	0.07	0.61	0.28	0.08	0.13	0.01					T		16												16		1.18		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21		T	T	0.01	0.01						T	0.06	21	0.03	0.07	0.07	0.05	0.03	0.07	0.07	0.07	T			21		0.60		
22												T	22	T											22		0.01		
23													23				0.01	T							23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28			T			0.01	T	0.02	0.17	0.19	0.08	0.01	28	T							T	0.01	0.03	0.15	0.67	28		1.34	
29	0.12	0.08	0.07	0.03	T	0.03	T						29												29		0.33		
30													30												30		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)	.17	.28	.36	.41	.50	.60	.68	.74	.84	.89	.95	.99
Ending Date	28	16	16	16	16	28	28	29	16	16	16	16
Ending Time (Hour/Min)	2323	0114	0118	0124	0132	2342	2342	0014	0243	0252	0326	0403

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 1971–2000

### 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 NOVEMBER 2005

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							3.00	10.00	
02							6.00	10.00	
03							.25	10.00	
04							6.00	10.00	
05							4.00	10.00	
06							5.00	10.00	
07							10.00	10.00	
08							7.00	10.00	
09							6.00	10.00	
10							10.00	10.00	
11							3.00	10.00	
12							10.00	10.00	
13							8.00	10.00	
14							.50	8.00	
15							.50	10.00	
16							2.50	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							.25	10.00	
20							10.00	10.00	
21							3.00	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							2.00	10.00	
29							4.00	10.00	
30							10.00	10.00	
<b>MONTHLY AVGS</b>							6.33	9.93	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 2            9            15									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

NOVEMBER 2005

OQT

WBAN # 53868

Table with columns for Hour (LST), Sky Cover, Ceiling, Observation Time, Eff Cl'd Amt, Visibility, Weather, Temperature (Dry Bulb, Dew Point, Wet Bulb), Wind (Speed, Direction), Pressure (Station, Sea Level), and Satellite. Data is organized by date from Nov 01 to Nov 12, 2005.

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

NOVEMBER 2005

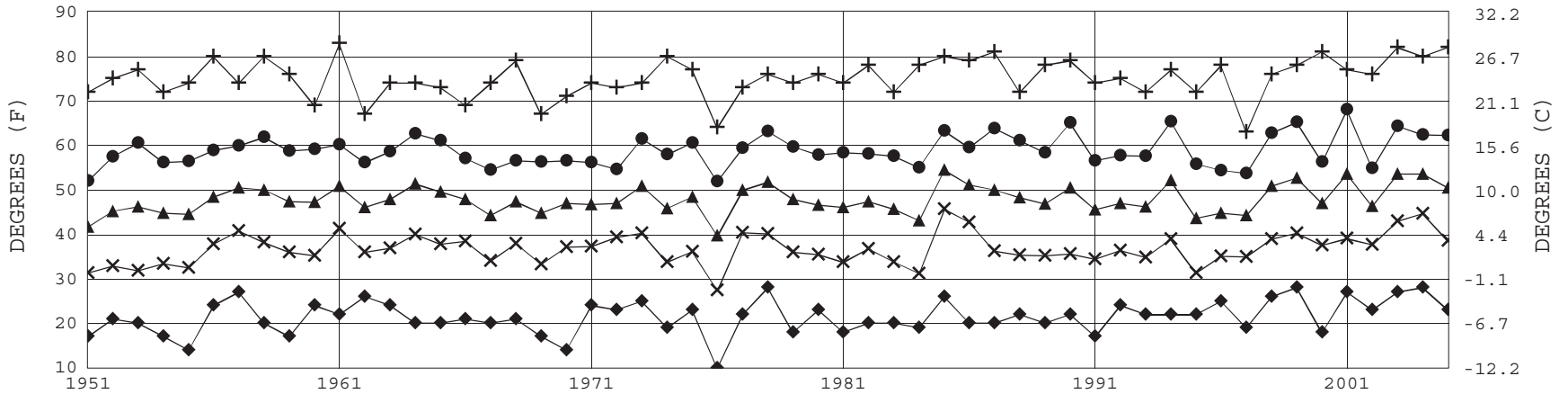
OQT

WBAN # 53868

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB		DEW POINT	WET BULB	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	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0712					NOV 13					SUNSET: 1731					SUNRISE: 0718					NOV 19					SUNSET: 1727				
01	CLR	NC	10.00		49	29	40	46	3	VR	29.26	30.23	01	CLR	NC	10.00		28	21	26	75	0	00	29.35	30.37				
04	OVC	050	10.00		48	33	41	56	5	22	29.25	30.22	04	CLR	NC	10.00		27	21	25	78	0	00	29.34	30.36				
07	BKN	032	10.00		47	34	41	61	0	00	29.27	30.25	07	CLR	NC	10.00		25	21	24	85	0	00	29.38	30.41				
10	OVC	030	10.00		58	45	51	62	5	VR	29.32	30.29	10	CLR	NC	10.00		37	28	34	70	0	00	29.40	30.42				
13	BKN	034	10.00		63	49	55	60	5	VR	29.27	30.25	13	CLR	NC	10.00		51	20	39	29	3	VR	29.30	30.31				
16	OVC	075	10.00		64	52	57	65	0	00	29.23	30.20	16	CLR	NC	10.00		55	20	41	25	3	VR	29.26	30.27				
19	OVC	033	10.00		61	53	57	75	0	00	29.26	30.24	19	OVC	110	10.00		51	25	40	36	0	00	29.30	30.31				
22	OVC	019	9.00		62	56	59	81	3	VR	29.29	30.25	22	OVC	090	10.00		48	30	40	50	3	01	29.28	30.28				
SUNRISE: 0713					NOV 14					SUNSET: 1730					SUNRISE: 0719					NOV 20					SUNSET: 1726				
01	OVC	019	8.00		61	56	58	84	3	21	29.28	30.24	01	CLR	NC	10.00		43	31	38	63	0	00	29.28	30.27				
04	OVC	045	6.00	BR	59	56	57	90	0	00	29.28	30.24	04	CLR	NC	10.00		35	30	33	82	0	00	29.30	30.30				
07	OVC	018	6.00	-RA BR	60	57	58	90	0	00	29.28	30.25	07	BKN	090	10.00		34	30	32	85	0	00	29.30	30.30				
10	OVC	024	4.00	BR	62	58	60	86	0	00	29.30	30.27	10	CLR	NC	10.00		47	34	41	61	3	VR	29.31	30.30				
13	OVC	019	2.50	RA BR	62	60	61	93	0	00	29.26	30.22	13	OVC	055	10.00		56	28	44	34	0	00	29.24	30.23				
16	OVC	022	4.00	-RA BR	62	60	61	93	0	00	29.20	30.16	16	BKN	045	10.00		58	32	46	38	5	15	29.19	30.18				
19	OVC	065	2.00	RA BR	61	60	60	97	0	00	29.18	30.14	19	BKN	120	10.00		54	33	44	45	0	00	29.19	30.19				
22	OVC	060	1.75	BR	60	59	59	96	0	00	29.19	30.15	22	FEW	NC	10.00		50	36	44	59	0	00	29.17	30.16				
SUNRISE: 0714					NOV 15					SUNSET: 1729					SUNRISE: 0720					NOV 21					SUNSET: 1726				
01	OVC	001	0.50	FG	60	59	59	96	0	00	29.15	30.11	01	FEW	NC	10.00		49	38	44	66	0	00	29.10	30.08				
04	OVC	060	1.25	BR	59	58	58	96	0	00	29.13	30.10	04	OVC	085	10.00	-RA	46	42	44	86	3	04	29.04	30.01				
07	OVC	055	2.50	BR	59	58	58	96	0	00	29.14	30.10	07	OVC	070	10.00		48	40	44	74	6	05	28.96	29.93				
10	OVC	060	10.00	-RA	66	59	62	78	5	21	29.15	30.11	10	OVC	037	7.00	-RA	52	43	48	72	0	00	28.88	29.86				
13	OVC	037	10.00		68	60	63	76	5	27	29.09	30.05	13	OVC	039	5.00	RA BR	49	45	47	86	6	VR	28.75	29.73				
16	BKN	045	10.00		73	57	63	57	13	19	29.03	29.97	16	OVC	065	10.00		47	41	44	80	3	VR	28.69	29.66				
19	OVC	070	10.00		71	57	63	61	10	20	29.03	29.98	19	OVC	029	9.00	-RA	43	37	40	80	9	36	28.72	29.70				
22	OVC	065	10.00	-RA	70	59	63	68	16	19	28.99	29.93	22	OVC	030	8.00		42	39	41	89	0	00	28.73	29.72				
SUNRISE: 0715					NOV 16					SUNSET: 1729					SUNRISE: 0721					NOV 22					SUNSET: 1726				
01	OVC	037	5.00	-RA BR	65	62	63	90	6	26	28.97	29.91	01	OVC	028	10.00		43	33	39	68	3	VR	28.72	29.70				
04	OVC	008	4.00	RA BR	62	60	61	93	6	VR	28.99	29.93	04	OVC	029	10.00		41	37	39	86	0	00	28.71	29.70				
07	OVC	039	10.00		51	43	47	74	3	VR	29.07	30.03	07	OVC	037	10.00		42	30	37	62	8	34	28.76	29.75				
10	OVC	060	10.00		47	38	43	71	8	23	29.20	30.17	10	OVC	035	10.00		42	29	37	60	3	VR	28.82	29.82				
13	CLR	NC	10.00		49	32	42	52	9	26	29.22	30.19	13	OVC	044	10.00		44	28	37	53	5	VR	28.83	29.81				
16	CLR	NC	10.00		50	31	42	48	8	23	29.23	30.20	16	OVC	060	10.00	-RA	43	28	37	56	5	30	28.86	29.85				
19	CLR	NC	10.00		43	28	37	56	5	VR	29.31	30.30	19	SCT	NC	10.00		40	27	35	60	3	VR	28.90	29.90				
22	CLR	NC	10.00		38	28	34	68	0	00	29.35	30.35	22	BKN	055	10.00		40	23	34	51	0	00	28.94	29.94				
SUNRISE: 0716					NOV 17					SUNSET: 1728					SUNRISE: 0722					NOV 23					SUNSET: 1725				
01	CLR	NC	10.00		35	21	30	57	8	36	29.38	30.38	01	FEW	NC	10.00		38	20	31	48	0	00	28.96	29.96				
04	CLR	NC	10.00		31	18	27	59	9	01	29.41	30.42	04	CLR	NC	10.00		32	24	29	73	3	22	28.95	29.95				
07	CLR	NC	10.00		27	16	24	63	3	36	29.45	30.47	07	OVC	100	10.00		30	25	28	82	0	00	28.93	29.93				
10	CLR	NC	10.00		33	16	27	49	6	01	29.49	30.53	10	BKN	090	10.00		36	26	32	67	6	VR	28.89	29.89				
13	CLR	NC	10.00		39	13	30	34	5	36	29.47	30.50	13	FEW	NC	10.00		44	25	36	47	12	20	28.75	29.74				
16	CLR	NC	10.00		42	9	31	25	8	08	29.44	30.46	16	SCT	NC	10.00		48	28	40	46	8	23	28.62	29.61				
19	CLR	NC	10.00		35	9	27	34	3	36	29.45	30.49	19	CLR	NC	10.00		47	30	40	52	5	VR	28.62	29.61				
22	CLR	NC	10.00		31	13	25	47	3	09	29.45	30.49	22	SCT	NC	10.00		45	32	39	61	0	00	28.64	29.62				
SUNRISE: 0717					NOV 18					SUNSET: 1728					SUNRISE: 0723					NOV 24					SUNSET: 1725				
01	CLR	NC	10.00		28	14	24	56	3	05	29.45	30.47	01	CLR	NC	10.00		39	34	37	82	0	00	28.63	29.61				
04	CLR	NC	10.00		27	14	23	58	3	02	29.44	30.46	04	CLR	NC	10.00		40	34	37	79	3	22	28.64	29.62				
07	CLR	NC	10.00		26	15	23	63	0	00	29.45	30.49	07	CLR	NC	10.00		35	32	34	89	0	00	28.68	29.67				
10	CLR	NC	10.00		36	14	29	40	6	01	29.48	30.51	10	CLR	NC	10.00		51	34	43	52	13	26	28.73	29.71				
13	CLR	NC	10.00		43	12	33	28	5	VR	29.43	30.45	13	CLR	NC	10.00		56	29	44	36	12	26	28.75	29.73				
16	CLR	NC	10.00		48	10	35	21	5	06	29.37	30.39	16	CLR	NC	10.00		54	18	40	24	14	27	28.81	29.79				
19	CLR	NC	10.00		39	19	32	45	0	00	29.34	30.37	19	CLR	NC	10.00		48	9	35	20	7	VR	28.93	29.92				
22	CLR	NC	10.00		31	21	28	67	0	00	29.36	30.38	22	CLR	NC	10.00		41	10	31	28	10	34	29.03	30.02				



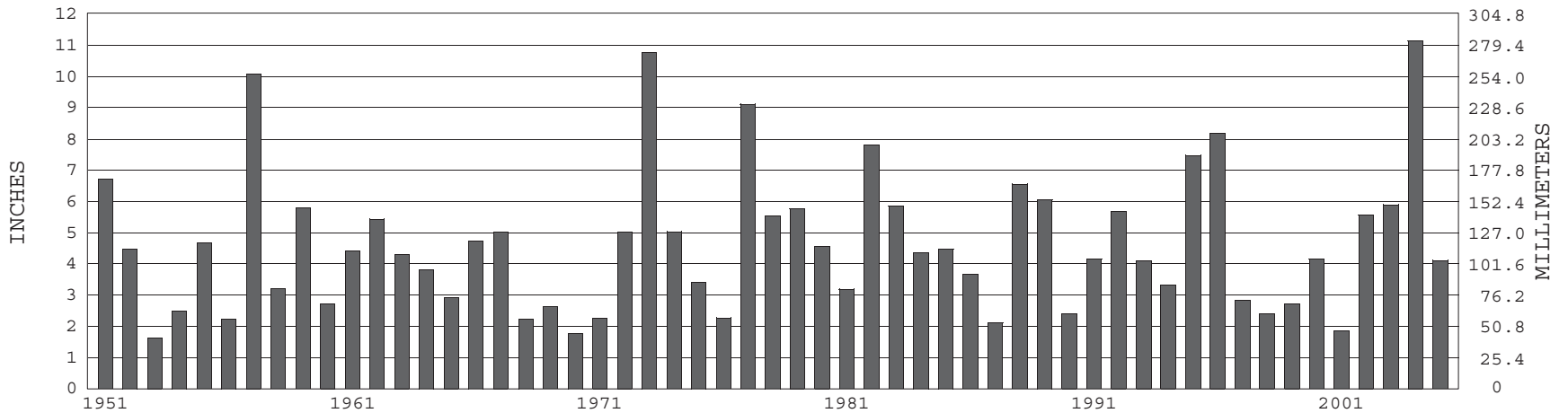
### OAK RIDGE, TN NOVEMBER TEMPERATURES



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

Long-Term (1951-2005) Mean: 47.8      1971-2000 Normal: 47.7

### OAK RIDGE, TN NOVEMBER PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 4.64

1971-2000 Normal: 4.86





NOVEMBER 2005

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.*

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