



FEBRUARY 2006 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (OQT)
Lat:36° 1' N Long: 84° 14' W Elev (Ground) 913 Feet
Time Zone : EASTERN WBAN: 53868 ISSN#: -



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24	
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM						
																			5-SEC		2-MIN				
																		SPEED 20	DIR 21	SPEED 22	DIR 23				
01	52	26	39	1	28	34	26	0	BR			0.00	29.05	30.05	0.8	23	1.5	13	21	10	22	01			
02	57	31	44	6	35	40	21	0	RA BR			0.21	28.80	29.76	0.4	05	1.0	12	07	9	07	02			
03	61	49	55*	17	44	49	10	0	RA BR			0.05	28.75	29.72	0.3	09	4.6	16	20	12	20	03			
04	51	31	41	3	33	37	24	0	RA SN BR UP			0.59	28.69	29.69	6.2	26	7.7	24	29	20	27	04			
05	41	29	35	-3	19	28	30	0	SN			T	28.92	29.96	5.3	25	6.8	22	29	16	28	05			
06	44	29	37	-2	21	30	28	0				0.00	29.11	30.15	1.1	22	2.6	12	21	9	21	06			
07	49	22	36	-3	16	28	29	0				0.00	29.18	30.21	1.2	26	2.4	14	28	10	28	07			
08	46	26	36	-3	22	30	29	0	RA SN BR			0.12	29.16	30.17	1.5	24	3.2	18	26	13	24	08			
09	40	26	33	-6	22	29	32	0	SN BR			T	29.23	30.26	0.7	30	2.1	12	26	9	32	09			
10	46	23	35	-4	23	31	30	0	RA BR			T	29.18	30.19	2.4	26	3.4	15	25	12	25	10			
11	39	32	36	-4	31	33	29	0	RA SN BR UP			0.35	28.95	29.94	1.0	23	2.9	14	21	10	20	11			
12	38	28	33	-7	23	29	32	0	SN BR			T	29.02	30.06	2.2	28	4.5	18	27	14	28	12			
13	36	25	31	-9	18	26	34	0	SN			T	29.19	30.22	3.6	23	5.4	21	26	14	21	13			
14	55	24	40	0	20	32	25	0				0.00	29.23	30.25	1.5	24	3.6	14	21	12	19	14			
15	62	32	47	6	30	40	18	0				0.00	29.26	30.27	3.0	21	4.0	22	17	15	18	15			
16	70*	38	54	13	38	47	11	0				0.00	29.21	30.18	4.5	21	4.9	25	21	20	19	16			
17	65	37	51	10	35	42	14	0	RA			0.11	29.28	30.28	2.0	03	8.3	32*	22	22*	22	17			
18	37	22	30	-11	22	27	35	0	RA SN FZFG BR UP			0.20	29.41	30.43	5.3	03	6.6	16	06	12	01	18			
19	35	17*	26*	-16	16	23	39	0	SN UP			T	29.42	30.45	2.4	04	4.3	15	05	12	05	19			
20	45	31	38	-4	26	33	27	0	UP			0.01	29.21	30.21	1.4	23	3.4	14	17	10	21	20			
21	53	38	46	4	28	37	19	0	RA			T	29.12	30.11	1.2	22	2.3	14	18	9	13	21			
22	50	41	46	4	44	45	19	0	RA BR			0.72	29.00	29.97	0.4	19	1.1	7	25	6	26	22			
23	58	40	49	6	30	41	16	0	RA BR			0.03	29.10	30.12	1.1	32	4.6	17	35	14	34	23			
24	59	32	46	3	25	36	19	0				0.00	29.33	30.33	0.2	10	2.0					24			
25	60	34	47	4	29	39	18	0				0.00	29.18	30.18								25			
26	45	26	36	-7	7	27	29	0				0.00	29.34	30.37								26			
27	54	21	38	-6	14	30	27	0				0.00	29.26	30.24	2.1	22			21	21	15	27			
28	69	35	52	8	34	44	13	0				0.00	29.04	30.02	3.1	22	5.2		21	21	14	28			
										< MONTHLY AVERAGES TOTALS >								< MONTHLY AVERAGES							
										-1.0 0.7 -0.2				DEPARTURE FROM NORMAL		-2.11		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.75 DATE : 22-23				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY										GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.56 19 1053							
SEASON TO DATE										GREATEST SNOW DEPTH :				MINIMUM :				29.50 04 0453							
TOTAL DEPARTURE										NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 20				PRECIPITATION >= 0.01 INCH : 10			
HEATING : 683 -13 2768 -375										THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH : 7			
COOLING : 0 0 0 0														HEAVY FOG : 0				SNOWFALL >= 1.0 INCH :							

FEBRUARY 2006
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (OQT)
FEBRUARY 2006

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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													01												01	0.00	0.00	
02													02												02	0.21	0.21	
03	0.04	0.01											03				0.01	T	T	0.07	0.08	0.03	0.02	03	0.05	0.05		
04	0.18	0.04	0.10	0.03	0.08	0.08	0.06	0.01	0.01		T	T	04			T		T	T	T	T			04	0.59	0.59		
05	T	T	T								T		05											05	T	T		
06													06											06	0.00	0.00		
07													07											07	0.00	0.00		
08													08						T	0.03	0.02	0.03	0.04	08	0.12	0.12		
09	T					T	T						09											09	T	T		
10													10											10	T	T		
11	0.03	0.04	0.05	0.03	0.03	0.04	0.03	0.01	0.02	0.03	0.03	0.01	11	T						T	T	T	T	11	0.35	0.35		
12	T	T	T		T	T	T	T	T	T	T	T	12		T	T				T				12	T	T		
13													13											13	T	T		
14													14											14	0.00	0.00		
15													15											15	0.00	0.00		
16													16											16	0.00	0.00		
17				T	0.08	0.01	0.02						17											17	0.11	0.11		
18				T	T	0.04	0.03	0.02	0.02	T	0.02	0.04	18	0.02	0.01									18	0.20	0.20		
19													19						T	T	T			19	T	T		
20			0.01	T	T								20											20	0.01	0.01		
21													21											21	T	T		
22		T	0.02	0.19	0.21	0.02	T	0.01					22			T	0.02	0.04	0.08	0.03	0.02	0.02	0.05	0.01	22	0.72	0.72	
23	0.03	T											23											23	0.03	0.03		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27													27											27	0.00	0.00		
28													28											28	0.00	0.00		

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.05	0.08	0.11	0.13	0.15	0.18	0.23	0.30	0.36	0.41	0.43	0.44
Ending Date	04	04	04	04	04	22	22	22	22	22	22	22
Ending Time (Hr/Min)	0045	0050	0053	0057	0109	0440	0440	0437	0455	0508	0508	0508

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

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 .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		
DESCRIPTOR	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 Unkown Precipitation		

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

OAK RIDGE, TN FEBRUARY 2006

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	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							4.00	10.00	
02							1.75	10.00	
03							3.00	10.00	
04							2.50	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							1.00	10.00	
09							6.00	10.00	
10							10.00	10.00	
11							1.00	10.00	
12							3.00	10.00	
13							6.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							5.00	10.00	
18							0.50	10.00	
19							6.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							1.25	10.00	
23							6.00	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	
MONTHLY AVGS							6.64	10.00	
SUNSHINE (Minutes)									
Total :					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
FEBRUARY 2006 OQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB				STATION	SEA LEVEL
			VISIBILITY (MILES)										
SUNRISE: 0711						FEB 25						SUNSET: 0711	
01	CLR	NC			10.00	36	27	33	70			29.26	30.26
04	CLR	NC			10.00	35	28	32	76			29.23	30.22
07	CLR	NC			10.00	38	28	34	67			29.23	30.23
10	CLR	NC			10.00	50	28	41	43			29.23	30.23
13	CLR	NC			10.00	58	32	46	37			29.16	30.16
16	CLR	NC			10.00	58	32	46	37			29.12	30.10
19	CLR	NC			10.00	54	34	45	47			29.10	30.09
22	CLR	NC			10.00	50	26	40	39			29.16	30.15
SUNRISE: 0710						FEB 26						SUNSET: 0710	
01	CLR	NC			10.00	40	17	32	39			29.22	30.21
04	CLR	NC			10.00	34	16	28	48			29.26	30.26
07	CLR	NC			10.00	30	13	25	49			29.33	30.34
10	CLR	NC			10.00	33	14	27	46			29.44	30.44
13	CLR	NC			10.00	40	1	29	19			29.43	30.44
16	CLR	NC			10.00	43	2	31	18			29.38	30.39
19	CLR	NC			10.00	38	-5	27	16			29.37	30.40
22	CLR	NC			10.00	30	1	22	29			29.40	30.42
SUNRISE: 0709						FEB 27						SUNSET: 0709	
01	CLR	NC			10.00	26	9	21	48			29.38	30.41
04	CLR	NC			10.00	23	11	20	60			29.34	30.36
07	CLR	NC			10.00	21	11	18	65			29.34	30.37
10	CLR	NC			10.00	34	13	27	42			29.34	30.37
13	OVC	075			10.00	48	10	35	21			29.24	30.26
16	OVC	070			10.00	53	14	38	21	13	21	29.12	30.12
19	OVC	055			10.00	52	17	39	25	5	21	29.08	30.08
22	CLR	NC			10.00	46	20	36	36	0	00	29.07	30.07
SUNRISE: 0707						FEB 28						SUNSET: 0707	
01	CLR	NC			10.00	37	24	32	59	0	00	29.10	30.09
04	CLR	NC			10.00	38	25	33	60	0	00	29.09	30.08
07	FEW	080			10.00	40	26	35	57	0	00	29.10	30.08
10	FEW	080			10.00	50	28	41	43	6	VR	29.10	30.09
13	CLR	NC			10.00	64	36	50	36	9	23	29.05	30.02
16	CLR	NC			10.00	68	36	52	31	9	19	28.95	29.92
19	OVC	075			10.00	65	42	53	43	9	21	28.96	29.93
22	OVC	055			10.00	60	45	52	58	5	VR	29.01	29.98

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	PRESSURE (INCHES, HG)	
			Observation Time (LST)	Eff Cld Amt Oktas		DRY BULB	DEW POINT	WET BULB				STATION	SEA LEVEL
			VISIBILITY (MILES)										

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, W = Vertical Visibility = 8/8

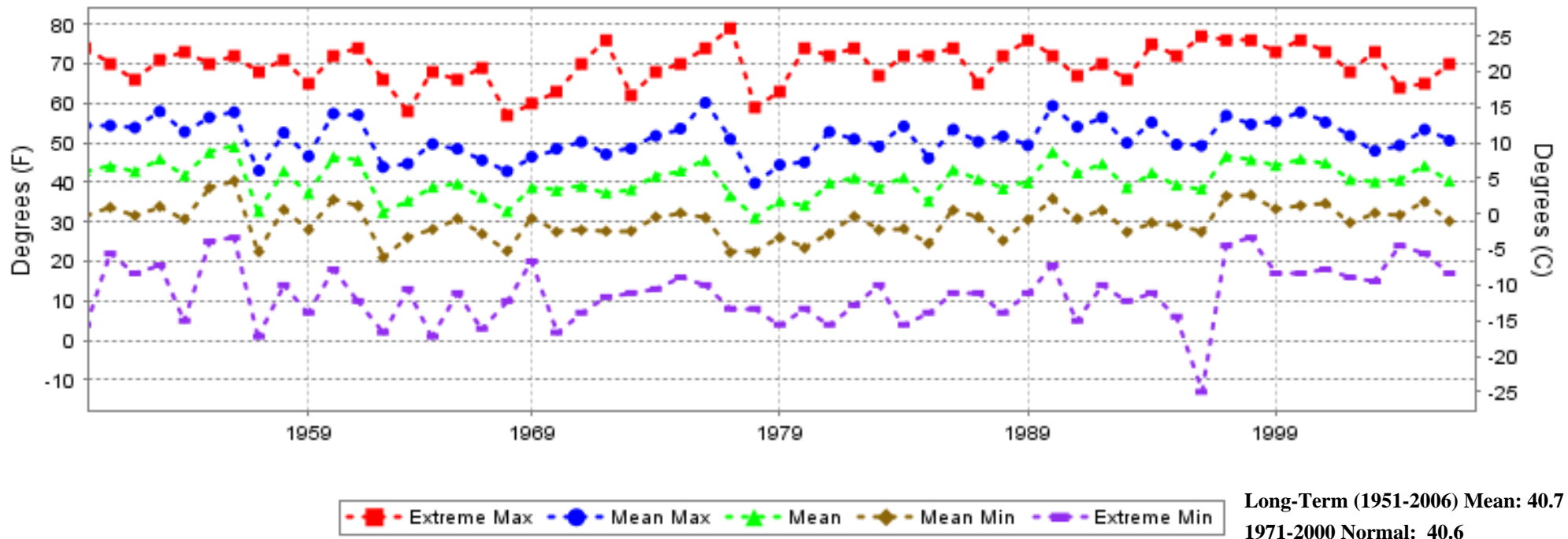
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

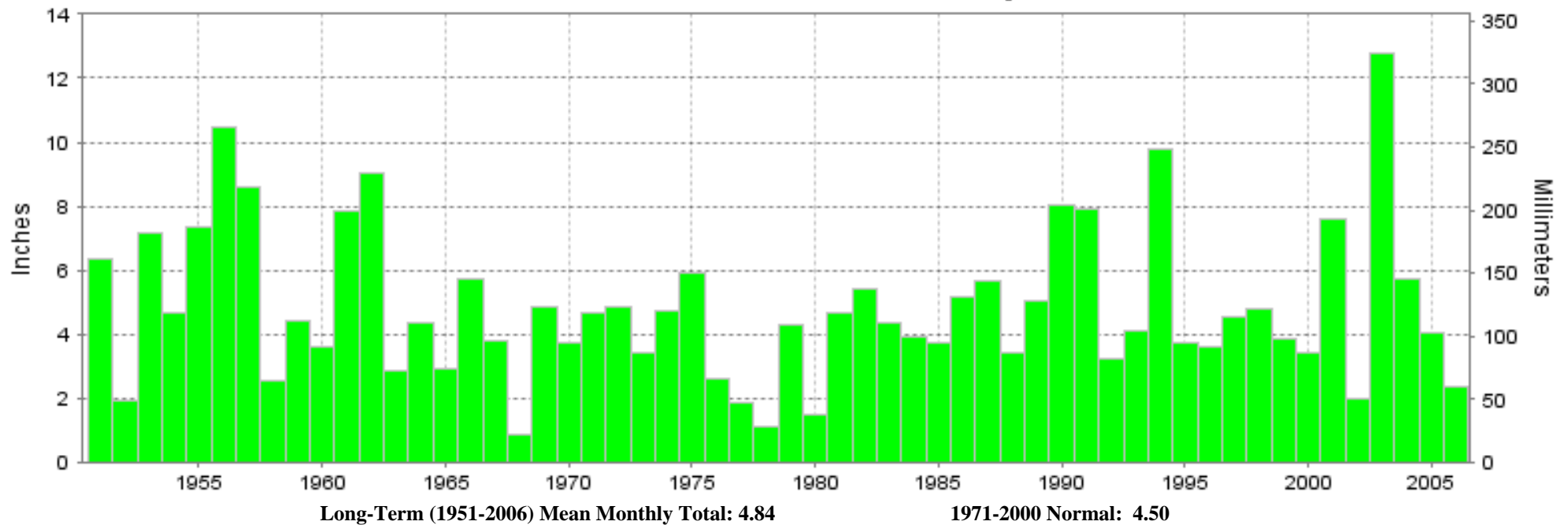
SUMMARY BY HOUR

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			36	27	33	72	29.12	30.13	8.80	3	1	27
02			36	27	33	72	29.12	30.13	9.25	4	2	27
03			35	27	32	75	29.12	30.12	9.18	3	2	27
04			35	27	32	75	29.12	30.12	9.13	2	2	27
05			34	27	31	76	29.13	30.13	8.78	2	1	27
06			33	26	31	76	29.14	30.15	9.14	3	2	27
07			33	26	31	75	29.15	30.16	9.19	2	1	27
08			33	26	31	74	29.16	30.17	8.79	3	1	27
09			36	26	32	70	29.18	30.19	9.02	3	1	09
10			38	26	34	64	29.18	30.19	9.19	4	1	27
11			41	26	35	58	29.19	30.20	8.92	5	3	27
12			43	25	36	52	29.18	30.18	9.30	6	5	27
13			45	25	37	48	29.15	30.16	9.47	7	3	27
14			47	25	38	45	29.12	30.12	9.75	6	3	27
15			48	24	39	43	29.11	30.11	9.89	6	3	27
16			48	24	39	42	29.10	30.10	9.82	6	4	27
17			48	24	38	43	29.10	30.10	9.71	6	4	27
18			46	25	38	46	29.10	30.10	9.67	5	3	27
19			44	26	37	52	29.11	30.11	9.54	4	3	27
20			42	26	36	56	29.11	30.12	9.27	3	2	27
21			41	27	36	62	29.12	30.12	9.05	3	2	27
22			40	27	35	63	29.12	30.13	9.10	3	1	27
23			39	28	34	66	29.12	30.12	9.21	3	1	27
24			38	28	34	68	29.12	30.12	9.07	3	2	27

OAK RIDGE, TN FEBRUARY Temperatures



OAK RIDGE, TN FEBRUARY Precipitation





**FEBRUARY 2006
OAK RIDGE, TN**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

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