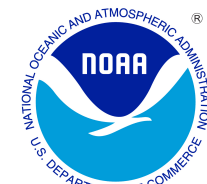




APRIL 2006 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36° 1' N Long: 84° 14' W Elev (Ground) 910 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	80	53	67	14	50	58	0	2	BR			0.00	29.10	30.05	2.4	25	4.7	22	25	15	26	01		
02	75	45	60	6	50	55	5	0	RA FG BR			0.70	29.07	30.00	1.2	24	3.0	35	30	23	29	02		
03	74	50	62	8	47	53	3	0	RA BR			0.49	28.94	29.94	4.7	28	7.5	32	27	22	26	03		
04	66	38	52	-2	28	42	13	0				0.00	29.13	30.11	2.2	26	4.3	20	26	15	27	04		
05	72	41	57	3	24	43	8	0				0.00	29.07	30.04	0.5	28	2.3	21	34	12	36	05		
06	66	39	53	-2	40	47	12	0	RA			0.04	28.99	29.95	0.4	13	0.8	9	06	8	07	06		
07	79	53	66	11	52	58	0	1	RA BR			0.92	28.80	29.75	5.7	22	7.0	39*	29	29*	29	07		
08	68	40	54	-1	47	51	11	0	RA BR			0.97	28.86	29.85	2.7	01	6.4	26	35	20	36	08		
09	63	35*	49*	-6	31	41	16	0				0.00	29.18	30.18	4.7	06	5.4	16	07	13	05	09		
10	72	37	55	-1	35	45	10	0				0.00	29.24	30.23	0.5	22	1.4	15	27	9	15	10		
11	77	43	60	4	38	50	5	0				0.00	29.28	30.27	0.8	24	2.4	15	27	10	22	11		
12	78	54	66	10	45	55	0	1				0.00	29.30	30.26	4.8	21	6.1	23	18	20	20	12		
13	82	52	67	11	52	59	0	2	RA			0.02	29.23	30.17	2.0	23	3.5	14	21	10	20	13		
14	88*	57	73	16	53	61	0	8				0.00	29.00	29.91	5.3	22	5.7	23	22	16	21	14		
15	86	62	74	17	54	62	0	9				0.00	28.85	29.78	4.0	23	5.6	18	22	14	20	15		
16	82	60	71	14	55	62	0	6				0.00	28.82	29.73	5.8	21	6.9	23	20	16	19	16		
17	84	64	74*	16	55	62	0	9				0.00	28.74	29.67	3.0	29	6.8	25	27	18	28	17		
18	80	57	69	11	55	60	0	4	HZ			0.00	28.89	29.83	1.8	10	3.7	14	16	10	16	18		
19	80	62	71	13	60	63	0	6	RA FG+ FG BR			0.50	28.89	29.84	0.8	18	3.7	18	28	13	27	19		
20	68	60	64	6	60	61	1	0	RA FG+ FG BR			0.24	29.02	29.98	0.4	08	1.6	21	20	16	21	20		
21	69	60	65	6	60	61	0	0	RA BR			2.16	29.03	29.98	0.6	14	1.8	13	22	9	26	21		
22	79	57	68	9	53	59	0	3	RA BR			0.79	28.99	29.95	0.3	05	1.9	16	01	12	01	22		
23	79	52	66	7	51	58	0	1				0.00	29.02	29.96	2.9	24	4.4	21	25	15	26	23		
24	80	58	69	9	55	61	0	4				0.00	28.97	29.91	1.4	24	3.3	15	21	12	21	24		
25	83	59	71	11	60	63	0	6	RA FG BR			0.35	28.90	29.84	1.6	21	2.6	31	30	23	29	25		
26	67	55	61	1	55	57	4	0	RA BR			0.37	28.90	29.86	1.0	06	3.1	12	01	9	35	26		
27	71	49	60	0	38	49	5	0				0.00	29.01	30.00	1.7	04	3.6	17	05	13	06	27		
28	75	42	59	-2	42	50	6	0				0.00	29.17	30.15	1.5	09	2.5	14	01	10	06	28		
29	70	53	62	1	48	53	3	0	RA			T	29.24	30.21	0.4	05	2.4	13	08	10	07	29		
30	68	52	60	-1	50	54	5	0	RA BR			0.11	29.23	30.17	0.5	15	2.2	15	29	10	17	30		

75.4	51.3	63.4	☼	48.1	55.1	3.6	2.1	< MONTHLY AVERAGES TOTALS >				7.66	29.03	29.99	1.1	23	3.9	< MONTHLY AVERAGES					
4.9	7.5	6.2		-----DEPARTURE FROM NORMAL ----->				3.34	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 2.93 DATE : 21-22				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY								GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.36 12 1015							
TOTAL DEPARTURE								GREATEST SNOW DEPTH :				MINIMUM :				29.60 17 1228							
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.01 INCH: 13			
TOTAL DEPARTURE								THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 11			
HEATING : 107 -147 3329 -578												HEAVY FOG : 2				SNOWFALL >= 1.0 INCH :							
COOLING : 62 143 67 46																							

APRIL 2006
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
APRIL 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												T	02	T					0.30	0.40					02	0.70	0.70	
03	0.01	0.02	0.08	0.21	0.13	0.04							03												03	0.49	0.49	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06	T					T	T					06	0.04	0.04	
07													07						0.01	0.12	0.45	0.21	0.13		07	0.92	0.92	
08	0.27	0.25	0.12	0.13	0.17	T	0.01	0.01			0.01		08												08	0.97	0.97	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.02	0.02	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.50	0.50	
20													20	T	0.04	0.12	0.08	T							20	0.24	0.24	
21													21						0.08	T	0.02	0.48	0.33	0.09	0.08	21	2.16	2.16
22	0.07	T	0.62	0.08	T	0.01	0.30	0.34	0.07	0.15	0.07		22												22	0.79	0.79	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25					0.08	T						25	0.35	0.35	
26													26					T	T	T					26	0.37	0.37	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	T	T	
30													30												30	0.11	0.11	

* 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)	0.30	0.47	0.67	0.70	0.70	0.70	0.70	0.78	0.82	0.84	0.90	0.94
Ending Date	02	02	02	02	02	02	02	21	21	21	21	21
Ending Time (Hr/Min)	1859	1904	1909	1912	1912	1912	1912	2145	2206	2227	2257	2327

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 APRIL 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							1.75	10.00	
02							1.25	10.00	
03							4.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							8.00	10.00	
07							3.00	10.00	
08							2.50	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							6.00	10.00	
19							0.50	10.00	
20							0.00	10.00	
21							2.00	10.00	
22							1.25	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							4.00	10.00	
26							3.00	10.00	
27							10.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
30							4.00	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		
1			9				17		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

APRIL 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0551 APR 25 SUNSET: 1918												
01	OVC	080				64	58	60	81	0 00	28.93	29.86
04	FEW	060				61	57	59	87	0 00	28.92	29.85
07	BKN	048			-RA BR	61	58	59	90	0 00	28.96	29.90
10	BKN	090			BR	66	63	64	90	0 00	28.94	29.88
13	CLR	NC				79	63	69	58	5 VR	28.88	29.81
16	FEW	080				83	53	65	36	12 23	28.78	29.72
19	BKN	110				67	62	64	84	3 16	28.85	29.80
22	CLR	NC			BR	62	60	61	93	0 00	28.91	29.86
SUNRISE: 0549 APR 26 SUNSET: 1918												
01	SCT	090			BR	60	58	59	93	0 00	28.90	29.83
04	OVC	100			RA BR	59	57	58	93	3 VR	28.90	29.83
07	OVC	043			+RA BR	59	57	58	93	3 10	28.95	29.90
10	OVC	042				61	57	59	87	0 00	28.95	29.90
13	OVC	027				63	58	60	84	0 00	28.90	29.85
16	OVC	021				63	57	59	81	7 01	28.85	29.80
19	OVC	028				60	53	56	78	6 VR	28.86	29.82
22	BKN	030				56	50	53	80	5 VR	28.93	29.89
SUNRISE: 0548 APR 27 SUNSET: 1919												
01	OVC	040				54	48	51	80	3 VR	28.96	29.91
04	BKN	100				54	46	50	75	0 00	28.98	29.94
07	FEW	055				53	43	48	69	0 00	29.02	29.99
10	CLR	NC				59	37	48	44	9 06	29.07	30.03
13	CLR	NC				66	31	49	27	5 VR	29.04	30.00
16	CLR	NC				69	30	50	23	3 VR	29.01	29.96
19	CLR	NC				66	32	50	28	3 VR	29.05	30.00
22	CLR	NC				54	41	48	62	0 00	29.10	30.07
SUNRISE: 0547 APR 28 SUNSET: 1920												
01	CLR	NC				47	42	45	83	0 00	29.13	30.10
04	CLR	NC				44	41	43	89	0 00	29.16	30.13
07	CLR	NC				45	41	43	86	0 00	29.21	30.19
10	CLR	NC				64	43	53	47	8 07	29.23	30.20
13	CLR	NC				70	38	54	31	7 VR	29.19	30.16
16	CLR	NC				73	40	56	30	3 VR	29.15	30.11
19	CLR	NC				69	40	54	35	0 00	29.15	30.13
22	CLR	NC				56	46	51	69	0 00	29.20	30.16
SUNRISE: 0546 APR 29 SUNSET: 1921												
01	CLR	NC				53	47	50	80	0 00	29.19	30.16
04	CLR	NC				54	47	50	77	0 00	29.21	30.17
07	BKN	070				55	48	51	77	5 VR	29.27	30.23
10	CLR	NC				59	48	53	67	7 05	29.27	30.25
13	CLR	NC				67	46	56	47	0 00	29.25	30.22
16	CLR	NC				69	48	57	47	3 20	29.24	30.20
19	OVC	080			-RA	64	44	54	48	0 00	29.28	30.24
22	FEW	120				57	50	53	78	0 00	29.25	30.22
SUNRISE: 0545 APR 30 SUNSET: 1922												
01	BKN	110				56	52	54	87	3 36	29.23	30.19
04	BKN	110			-RA	55	52	53	90	0 00	29.18	30.14
07	CLR	NC			BR	55	53	54	93	0 00	29.19	30.16
10	CLR	NC				66	49	57	54	5 VR	29.20	30.16
13	CLR	NC				66	40	53	39	6 19	29.20	30.16
16	OVC	095				61	53	57	75	0 00	29.15	30.12
19	OVC	090			-RA	59	54	56	84	5 26	29.19	30.16
22	OVC	100			-RA	52	50	51	93	0 00	29.25	30.22

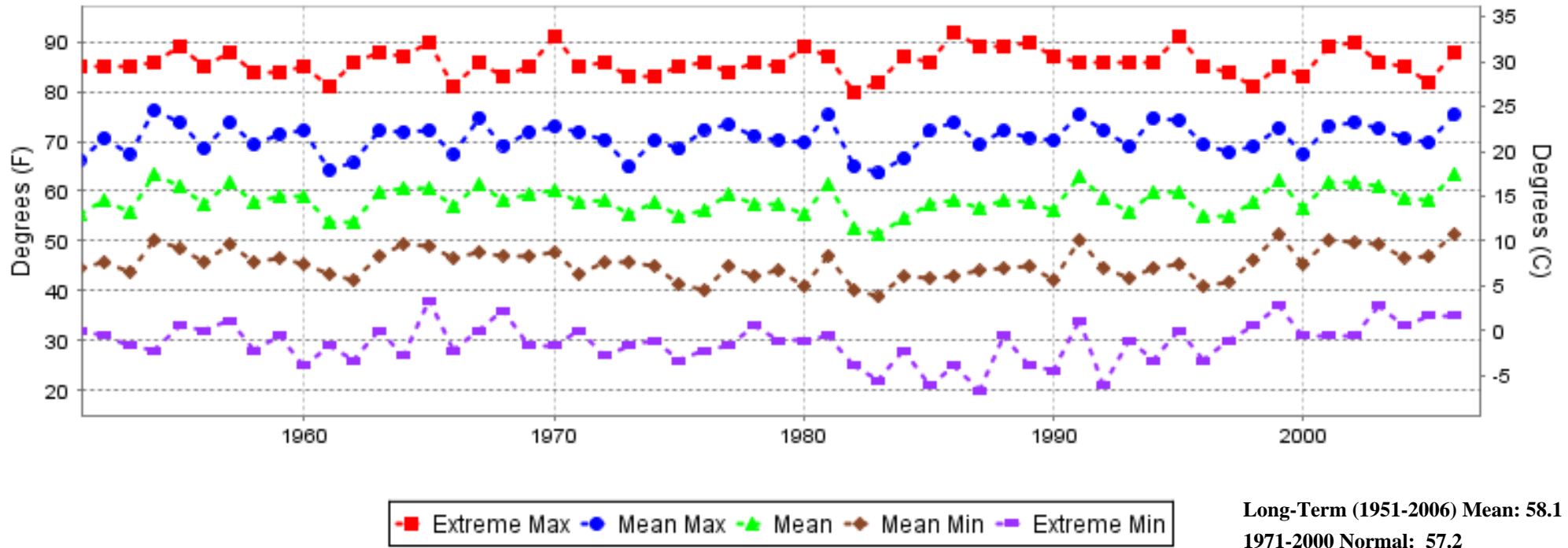
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL

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.

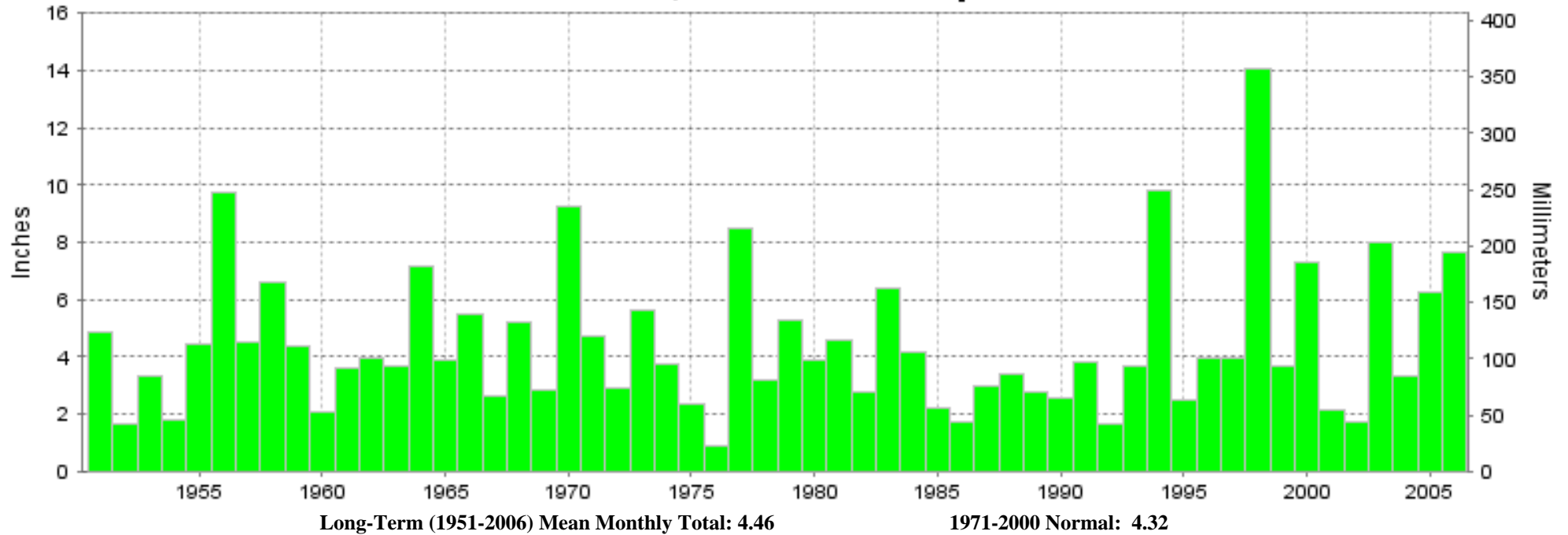
SUMMARY BY HOUR

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			57	49	53	76	29.03	29.98	8.79	2	2	07
02			56	49	52	77	29.02	29.97	9.12	2	1	30
03			56	48	52	78	29.02	29.97	8.68	2	0	33
04			55	48	52	79	29.03	29.98	8.78	2	1	29
05			54	48	51	81	29.03	29.98	9.04	2	1	06
06			53	48	51	83	29.04	29.99	8.98	1	2	29
07			55	49	52	81	29.06	30.02	8.33	2	1	29
08			57	49	53	76	29.07	30.03	8.33	3	0	02
09			61	49	55	68	29.07	30.03	9.06	5	0	03
10			64	50	56	63	29.07	30.03	9.33	5	0	31
11			67	49	57	56	29.07	30.02	9.87	6	1	28
12			69	49	58	52	29.05	30.00	10.00	7	3	27
13			71	48	58	48	29.04	29.99	9.83	7	5	27
14			72	47	59	45	29.02	29.97	9.80	7	3	27
15			73	47	59	43	29.00	29.95	9.73	7	3	27
16			73	46	59	43	28.99	29.94	9.83	7	2	27
17			72	46	58	44	28.99	29.94	9.83	7	5	27
18			71	46	58	45	29.00	29.95	9.93	6	2	27
19			69	46	57	48	29.00	29.96	9.64	5	4	27
20			65	47	56	56	29.02	29.97	9.87	3	5	28
21			62	49	55	64	29.03	29.99	9.13	2	2	28
22			60	49	55	68	29.04	30.00	9.17	2	3	28
23			59	49	54	71	29.04	30.00	9.07	1	1	03
24			58	49	53	74	29.04	29.99	9.10	2	1	29

OAK RIDGE, TN APRIL Temperatures



OAK RIDGE, TN APRIL Precipitation





**APRIL 2006
OAK RIDGE, TN**

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

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DIRECTOR

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