



MAY 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 #: —

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												
																			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	67	40	54	-7	35	45	11	0	FG+ BR				0.00	29.14	30.11	0.8	36	2.7	16	34	12	35	01										
02	65	39	52	-10	34	44	13	0	RA				T	29.14	30.12	1.7	28	3.5	22	28	15	21	02										
03	66	37*	52	-10	32	43	13	0					0.00	29.21	30.19	0.9	29	2.3	17	26	13	24	03										
04	66	39	53	-9	35	45	12	0					0.00	29.31	30.29	3.0	06	4.1	20	06	14	06	04										
05	57	47	52*	-11	47	50	13	0	RA FG+ BR				0.09	29.31	30.29	2.6	05	2.8	9	06	7	06	05										
06	71	48	60	-3	49	53	5	0	FG+ BR				0.00	29.21	30.18	0.7	22	1.8	9	27	7	22	06										
07	78	43	61	-2	46	53	4	0	FG+ BR				0.00	29.14	30.10	0.4	19	1.5	15	25	13	17	07										
08	83	49	66	3	52	58	0	1	BR				0.00	29.10	30.05	0.4	23	1.7	12	12	8	13	08										
09	85	54	70	6	54	60	0	5	BR				0.00	29.04	29.98	0.7	22	2.7	15	20	12	20	09										
10	74	58	66	2	58	61	0	1	RA BR				0.01	29.08	30.02	1.0	13	2.3	12	17	9	16	10										
11	85	53	69	5	56	61	0	4	FG+ BR HZ				0.00	29.11	30.06	0.5	08	1.9	12	09	9	08	11										
12	88*	57	73	8	59	64	0	8	BR HZ				0.00	29.17	30.11	0.8	18	1.6	12	16	9	20	12										
13	86	60	73	8	60	65	0	8	BR HZ				0.00	29.14	30.08	1.2	23	2.8	17	22	12	22	13										
14	79	63	71	6	61	64	0	6	RA BR HZ				0.29	29.03	29.97	1.9	23	3.1	22	22	15	21	14										
15	76	54	65	0	50	58	0	0	BR				0.00	28.97	29.92	1.3	30	4.3	18	27	13	29	15										
16	71	48	60	-6	42	50	5	0					0.00	29.06	30.02	1.4	05	3.8	14	06	12	06	16										
17	80	47	64	-2	46	54	1	0					0.00	29.05	30.01	1.3	06	3.0	14	32	12	06	17										
18	83	52	68	2	52	59	0	3					0.00	29.06	30.01	0.5	25	1.6	14	20	9	27	18										
19	83	56	70	4	58	63	0	5	RA BR HZ				0.01	28.99	29.92	2.0	22	3.9	15	20	10	21	19										
20	72	59	66	-1	60	61	0	1	RA FG+ BR				2.78	28.87	29.81	1.2	06	3.1	23*	06	15	05	20										
21	77	57	67	0	58	61	0	2	FG+ BR				0.00	28.96	29.90	2.2	06	3.3	14	07	10	07	21										
22	78	56	67	0	56	61	0	2	BR				0.00	28.92	29.87	1.1	23	3.1	15	20	10	23	22										
23	81	64	73*	5	54	62	0	8	RA BR HZ				0.01	28.78	29.71	3.4	26	5.6	22	27	15	26	23										
24	72	53	63	-5	48	55	2	0					0.00	28.83	29.77	2.8	36	4.6	22	36	16*	34	24										
25	71	47	59	-9	46	52	6	0					0.00	28.96	29.92	2.5	05	4.0	17	05	14	06	25										
26	77	47	62	-6	50	56	3	0	BR				0.00	29.01	29.97	1.0	13	2.3	13	18	9	15	26										
27	82	57	70	1	53	59	0	5	RA BR				T	29.02	29.96	0.8	25	2.7	15	28	12	26	27										
28	80	56	68	-1	47	56	0	3	RA				T	29.02	29.96	0.5	11	2.1	15	31	10	31	28										
29	72	50	61	-8	51	56	4	0					0.00	29.06	30.01	0.5	23	1.9	10	21	8	22	29										
30	82	53	68	-1	53	59	0	3					0.00	29.00	29.95	1.1	06	3.4	13	08	10	05	30										
31	81	57	69	-1	57	62	0	4	BR				0.00	29.01	29.95	1.3	05	3.4	15	01	12	06	31										
76.4										51.6	64.0	■ ■	50.3	56.5	3.0	2.2	< MONTHLY AVERAGES		TOTALS-->				3.19	29.05	30.01	0.1	07	2.9	<-- MONTHLY AVERAGES				
-1.4										-1.8	-1.6	■ ■	<-----DEPARTURE FROM NORMAL----->										-1.95	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.79				DATE :19-20		SEA LEVEL PRESSURE				DATE		TIME												
MONTHLY									GREATEST 24-HR SNOWFALL:				DATE :		MAXIMUM				:		30.35		04 0953										
TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE :		MINIMUM				:		29.65		23 1653										
HEATING: 92 12 3288 -699									NUMBER OF DAYS WITH ➔		MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 6														
COOLING: 69 -26 84 -32											MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH : 2														
											THUNDERSTORMS : 0				HEAVY FOG : 7				SNOWFALL ≥ 1.0 INCH :														

MAY 2005  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

MAY 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												01			0.00	
02								T	T				02												02			T	
03													03												03			0.00	
04													04	0.03	0.01	T	0.01	T	T						04			0.00	
05									0.01	0.01	0.01	0.01	05												05			0.09	
06													06												06			0.00	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10					T	T		T	0.01				10				T		T	T					10			0.01	
11													11												11			0.00	
12													12												12			0.00	
13													13												13			0.00	
14								0.04	0.03	T	0.01		14		0.03	0.17	T	T	0.01				T	T	14			0.29	
15													15												15			0.00	
16													16												16			0.00	
17													17												17			0.00	
18													18												18			0.00	
19													19												19			0.01	
20	0.47	0.73	0.47	0.24	0.29	0.11	0.05	0.08	0.03	T	T		20			0.29					0.02	T	T		20			2.78	
21													21												21			0.00	
22													22												22			0.00	
23					0.01	T							23												23			0.01	
24													24												24			0.00	
25													25												25			0.00	
26													26												26			0.00	
27					T	T							27												27			T	
28						T		T					28												28			T	
29													29												29			0.00	
30													30												30			0.00	
31													31												31			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)	.22	.25	.33	.45	.58	.70	.82	1.11	1.17	1.27	1.57	1.76
Ending Date	20	20	20	20	20	20	20	20	20	20	20	20
Ending Time (Hour/Min)	0024	0025	0127	0132	0134	0145	0135	0136	0151	0300	0247	0317

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.

\* = 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

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

## WEATHER NOTATIONS

**OAK RIDGE, TN  
MAY 2005**

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:

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## OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

MAY 2005

OQT

WBAN # 53868

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>		VISIBILITY (MILES)	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 <small>Okta</small>	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0544 MAY 01						SUNSET: 1924						SUNRISE: 0538 MAY 07						SUNSET: 1929											
01	CLR	NC			6.00	BR	47	44	46	90	0	00	29.08	30.06	01	CLR	NC			4.00	BR	50	47	48	89	0	00	29.16	30.13
04	CLR	NC			4.00	BR	44	42	43	93	0	00	29.11	30.09	04	CLR	NC			5.00	BR	46	44	45	93	0	00	29.16	30.13
07	VV	001			<.25	FG	41	41	41	100	0	00	29.14	30.13	07	VV	001			<.25	FG	44	44	44	100	0	00	29.19	30.17
10	CLR	NC			10.00		57	23	43	27	6	VR	29.20	30.17	10	CLR	NC			10.00		66	49	57	54	3	VR	29.20	30.17
13	CLR	NC			10.00		62	27	46	26	5	VR	29.15	30.13	13	CLR	NC			10.00		74	43	57	33	6	20	29.14	30.11
16	CLR	NC			10.00		66	29	49	25	7	VR	29.10	30.08	16	CLR	NC			10.00		78	44	59	30	0	00	29.08	30.04
19	CLR	NC			10.00		62	27	46	26	5	VR	29.11	30.10	19	CLR	NC			10.00		74	47	59	38	3	VR	29.08	30.04
22	CLR	NC			10.00		50	36	44	59	0	00	29.15	30.13	22	CLR	NC			10.00		61	51	56	70	0	00	29.10	30.06
SUNRISE: 0543 MAY 02						SUNSET: 1924						SUNRISE: 0537 MAY 08						SUNSET: 1929											
01	CLR	NC			10.00		42	37	40	82	0	00	29.14	30.13	01	CLR	NC			9.00		55	50	52	83	0	00	29.10	30.06
04	CLR	NC			10.00		39	36	38	89	0	00	29.13	30.11	04	CLR	NC			6.00	BR	51	48	50	89	0	00	29.11	30.06
07	CLR	NC			10.00		42	38	40	85	3	VR	29.14	30.12	07	CLR	NC			6.00	BR	54	50	52	87	0	00	29.15	30.11
10	OVC	085			10.00		52	38	45	59	5	07	29.17	30.15	10	CLR	NC			10.00		71	52	60	51	6	21	29.15	30.10
13	CLR	NC			10.00		61	32	47	34	8	28	29.13	30.11	13	CLR	NC			10.00		80	51	63	37	3	VR	29.10	30.05
16	FEW	NC			10.00		64	29	48	27	8	28	29.09	30.07	16	SCT	NC			10.00		82	51	64	34	3	31	29.06	30.00
19	CLR	NC			10.00		59	30	46	33	3	VR	29.11	30.10	19	CLR	NC			10.00		78	55	64	45	0	00	29.05	29.99
22	CLR	NC			10.00		53	30	43	41	5	35	29.15	30.14	22	CLR	NC			9.00		64	57	60	78	0	00	29.06	30.01
SUNRISE: 0542 MAY 03						SUNSET: 1925						SUNRISE: 0536 MAY 09						SUNSET: 1930											
01	CLR	NC			10.00		45	36	41	71	0	00	29.17	30.15	01	CLR	NC			6.00	BR	58	55	56	90	3	04	29.07	30.01
04	CLR	NC			10.00		40	35	38	83	0	00	29.18	30.17	04	CLR	NC			5.00	BR	56	54	55	93	0	00	29.08	30.02
07	CLR	NC			10.00		40	36	38	86	0	00	29.22	30.21	07	CLR	NC			3.00	BR	57	54	55	90	0	00	29.09	30.04
10	CLR	NC			10.00		54	28	43	37	5	VR	29.25	30.24	10	CLR	NC			10.00		73	52	61	48	5	VR	29.08	30.03
13	BKN	070			10.00		61	31	47	32	0	00	29.20	30.18	13	CLR	NC			10.00		81	52	64	37	6	22	29.05	29.98
16	SCT	NC			10.00		65	29	48	26	8	23	29.15	30.13	16	CLR	NC			10.00		83	50	63	32	8	21	28.98	29.92
19	CLR	NC			10.00		59	29	46	32	6	34	29.18	30.16	19	CLR	NC			10.00		79	54	64	42	8	24	28.98	29.92
22	CLR	NC			10.00		50	32	42	50	0	00	29.25	30.23	22	CLR	NC			10.00		70	56	62	61	0	00	29.01	29.95
SUNRISE: 0541 MAY 04						SUNSET: 1926						SUNRISE: 0535 MAY 10						SUNSET: 1931											
01	OVC	080			10.00		45	36	41	71	0	00	29.27	30.26	01	SCT	NC			8.00		67	56	60	68	0	00	29.02	29.95
04	CLR	NC			10.00		40	36	38	86	3	06	29.28	30.27	04	BKN	090			8.00		66	56	60	70	5	VR	29.04	29.97
07	CLR	NC			10.00		43	38	41	82	0	00	29.33	30.32	07	OVC	095			8.00		65	57	60	76	0	00	29.08	30.02
10	CLR	NC			10.00		57	28	44	33	9	06	29.37	30.35	10	BKN	100			7.00		65	59	61	81	5	08	29.11	30.06
13	CLR	NC			10.00		62	31	48	31	10	05	29.33	30.31	13	BKN	022			10.00		72	60	65	66	5	VR	29.09	30.03
16	CLR	NC			10.00		65	32	49	29	6	VR	29.28	30.26	16	CLR	NC			10.00		73	59	64	62	6	14	29.07	30.01
19	CLR	NC			10.00		62	32	48	32	5	05	29.27	30.25	19	CLR	NC			10.00		71	57	63	61	0	00	29.07	30.01
22	SCT	NC			10.00		52	40	46	64	0	00	29.31	30.29	22	CLR	NC			8.00		61	58	59	90	0	00	29.09	30.05
SUNRISE: 0540 MAY 05						SUNSET: 1927						SUNRISE: 0534 MAY 11						SUNSET: 1932											
01	CLR	NC			10.00		50	38	44	63	0	00	29.29	30.26	01	CLR	NC			5.00	BR	57	55	56	93	0	00	29.09	30.05
04	CLR	NC			10.00		48	37	43	66	3	05	29.28	30.26	04	VV	001			0.25	FG	54	54	54	100	0	00	29.08	30.04
07	BKN	060			10.00		50	39	45	66	5	07	29.32	30.29	07	VV	001			0.25	FG	54	53	53	97	5	08	29.13	30.09
10	OVC	070			10.00		53	48	50	83	5	08	29.34	30.32	10	CLR	NC			10.00		70	58	63	66	5	VR	29.15	30.11
13	OVC	044			4.00	-RA BR	54	50	52	87	3	07	29.35	30.33	13	CLR	NC			10.00		80	58	66	47	8	08	29.12	30.06
16	OVC	060			4.00	-RA BR	57	53	55	87	3	35	29.31	30.29	16	CLR	NC			10.00		83	52	64	34	5	VR	29.08	30.02
19	OVC	060			4.00	BR	56	54	55	93	3	05	29.29	30.27	19	CLR	NC			10.00		82	54	65	38	0	00	29.06	30.00
22	CLR	NC			1.25	BR	54	52	53	93	0	00	29.29	30.27	22	CLR	NC			10.00		67	58	62	73	0	00	29.11	30.06
SUNRISE: 0539 MAY 06						SUNSET: 1928						SUNRISE: 0534 MAY 12						SUNSET: 1933											
01	VV	001			0.25	FG	51	51	51	100	0	00	29.26	30.24	01	CLR	NC			10.00		61	57	59	87	0	00	29.14	30.09
04	VV	001			0.25	FG	50	49	49	96	0	00	29.24	30.22	04	CLR	NC			9.00		58	56	57	93	0	00	29.16	30.11
07	OVC	003			3.00	BR	50	49	49	96	0	00	29.26	30.24	07	CLR	NC			7.00		60	56	58	86	0	00	29.20	30.14
10	BKN	040			10.00		59	50	54	72	3	VR	29.28	30.25	10	CLR	NC			10.00		77	59	66	54	7	20	29.22	30.16
13	BKN	041			10.00		68	50	58	53	7	21	29.21	30.18	13	CLR	NC			10.00		84	60	69	44	5	11	29.19	30.13
16	SCT	NC			10.00		68	47	56	47	3	VR	29.15	30.12	16	CLR	NC			10.00		86	57	68	37	0	00	29.13	30.08
19	BKN	095			10.00		68	47	56	47	5	25	29.13	30.10	19	CLR	NC			10.00		83	61	69	48	0	00	29.12	30.06
22	CLR	NC			8.00		55	50	52	83	0	00	29.17	30.14	22	CLR	NC			8.00		71	63	66	76	0	00	29.17	30.11

## OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

MAY 2005

OQT

WBAN # 53868

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
			OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION				SEA LEVEL	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG
	SKY COVER	CEILING 100'S OF FT													SKY COVER	CEILING 100'S OF FT											
			SUNRISE: 0533		MAY 13	SUNSET: 1934										SUNRISE: 0528		MAY 19	SUNSET: 1938								
01	CLR	NC		7.00		66	62	64	87	0	00	29.16	30.09	01	CLR	NC		7.00		61	55	58	81	0	00	29.05	29.98
04	CLR	NC		6.00	BR	62	59	60	90	0	00	29.16	30.10	04	CLR	NC		5.00	BR	58	54	56	87	0	00	29.05	29.99
07	CLR	NC		5.00	BR	63	59	61	87	0	00	29.20	30.14	07	CLR	NC		4.00	HZ	60	55	57	84	0	00	29.07	30.01
10	CLR	NC		10.00		77	61	67	58	7	18	29.20	30.14	10	CLR	NC		8.00		74	59	65	60	6	VR	29.06	29.99
13	CLR	NC		10.00		85	60	69	43	8	27	29.16	30.09	13	CLR	NC		8.00		78	59	66	52	6	VR	29.01	29.95
16	CLR	NC		9.00		84	60	69	44	7	VR	29.08	30.02	16	SCT	NC		9.00		82	60	68	47	9	20	28.92	29.86
19	CLR	NC		9.00		81	59	67	47	3	VR	29.08	30.02	19	SCT	NC		8.00		80	60	67	51	6	18	28.88	29.82
22	CLR	NC		7.00		72	60	65	66	0	00	29.09	30.03	22	CLR	NC		9.00		75	61	66	62	3	VR	28.89	29.82
			SUNRISE: 0532		MAY 14	SUNSET: 1934										SUNRISE: 0528		MAY 20	SUNSET: 1939								
01	FEW	NC		5.00	HZ	66	60	62	81	0	00	29.07	30.00	01	OVC	023		3.00	RA BR	62	59	60	90	15	05	28.90	29.84
04	FEW	NC		5.00	HZ	65	60	62	84	0	00	29.06	29.99	04	OVC	006		9.00	-RA	60	58	59	93	0	00	28.90	29.83
07	BKN	046		4.00	HZ	65	60	62	84	3	21	29.10	30.03	07	OVC	008		2.50	RA BR	60	58	59	93	0	00	28.88	29.81
10	OVC	035		2.50	RA BR	65	62	63	90	6	VR	29.09	30.03	10	OVC	010		10.00	-RA	62	59	60	90	0	00	28.84	29.78
13	FEW	NC		10.00		77	62	67	60	9	23	29.00	29.93	13	BKN	070		10.00		70	61	64	73	6	VR	28.83	29.78
16	FEW	NC		8.00		70	63	66	79	6	21	28.97	29.91	16	SCT	NC		10.00		69	61	64	76	0	00	28.82	29.77
19	CLR	NC		10.00		67	61	63	81	0	00	28.96	29.91	19	SCT	NC		10.00		70	60	64	71	3	VR	28.84	29.78
22	OVC	037		10.00		63	60	61	90	3	VR	28.98	29.93	22	OVC	080		8.00		63	61	62	93	0	00	28.89	29.84
			SUNRISE: 0531		MAY 15	SUNSET: 1935										SUNRISE: 0527		MAY 21	SUNSET: 1940								
01	BKN	120		6.00	BR	63	61	62	93	0	00	28.97	29.90	01	VV	002		0.75	BR	60	59	59	96	0	00	28.91	29.85
04	OVC	065		5.00	BR	63	61	62	93	0	00	28.95	29.89	04	OVC	001		0.50	FG	58	57	57	97	0	00	28.93	29.88
07	OVC	055		10.00		62	59	60	90	3	05	28.98	29.93	07	CLR	NC		3.00	BR	59	58	58	96	0	00	28.96	29.91
10	SCT	NC		10.00		70	53	60	55	0	00	28.98	29.92	10	SCT	NC		10.00		70	60	64	71	7	05	28.99	29.93
13	SCT	NC		10.00		75	47	59	37	8	21	28.95	29.89	13	SCT	NC		10.00		74	59	65	60	8	07	28.97	29.91
16	CLR	NC		10.00		75	44	58	33	8	28	28.93	29.86	16	BKN	044		10.00		75	58	65	55	5	07	28.94	29.88
19	SCT	NC		10.00		69	43	55	39	6	VR	28.97	29.91	19	CLR	NC		9.00		71	58	63	63	5	VR	28.96	29.91
22	CLR	NC		10.00		60	42	51	52	7	VR	29.03	29.98	22	CLR	NC		10.00		63	55	58	76	0	00	28.99	29.93
			SUNRISE: 0530		MAY 16	SUNSET: 1936										SUNRISE: 0526		MAY 22	SUNSET: 1941								
01	CLR	NC		10.00		52	42	47	69	0	00	29.05	30.00	01	OVC	043		10.00		60	55	57	84	0	00	28.98	29.92
04	CLR	NC		10.00		50	40	45	68	0	00	29.06	30.01	04	FEW	NC		8.00		58	55	56	90	0	00	28.97	29.91
07	CLR	NC		10.00		50	41	46	71	0	00	29.08	30.05	07	CLR	NC		6.00	BR	58	55	56	90	0	00	28.99	29.94
10	CLR	NC		10.00		61	42	51	50	6	VR	29.10	30.06	10	CLR	NC		10.00		68	52	59	57	3	VR	28.99	29.93
13	CLR	NC		10.00		66	42	54	42	7	35	29.07	30.02	13	CLR	NC		10.00		76	55	63	48	3	VR	28.94	29.88
16	CLR	NC		10.00		70	43	56	38	6	VR	29.02	29.97	16	FEW	NC		10.00		77	58	65	52	7	VR	28.86	29.80
19	CLR	NC		10.00		65	43	53	45	3	VR	29.03	29.99	19	OVC	085		10.00		74	60	65	62	7	22	28.84	29.79
22	CLR	NC		10.00		58	44	51	60	0	00	29.07	30.02	22	BKN	095		9.00		71	59	64	66	3	VR	28.87	29.80
			SUNRISE: 0530		MAY 17	SUNSET: 1937										SUNRISE: 0526		MAY 23	SUNSET: 1942								
01	CLR	NC		10.00		53	43	48	69	0	00	29.07	30.02	01	FEW	NC		7.00		66	60	62	81	0	00	28.81	29.75
04	CLR	NC		10.00		49	43	46	80	0	00	29.06	30.02	04	BKN	065		6.00	BR	65	61	63	87	5	VR	28.77	29.70
07	CLR	NC		10.00		52	45	48	77	5	05	29.09	30.06	07	FEW	NC		5.00	HZ	68	63	65	84	6	25	28.80	29.73
10	CLR	NC		10.00		65	47	55	52	6	VR	29.09	30.05	10	CLR	NC		10.00		76	58	65	54	7	VR	28.80	29.73
13	CLR	NC		10.00		76	46	59	35	3	VR	29.05	29.99	13	CLR	NC		10.00		81	47	61	30	10	27	28.78	29.71
16	CLR	NC		10.00		79	40	58	25	5	VR	29.00	29.96	16	CLR	NC		10.00		80	49	62	34	10	27	28.72	29.65
19	CLR	NC		10.00		76	46	59	35	3	07	29.01	29.96	19	CLR	NC		10.00		78	47	60	33	5	VR	28.75	29.67
22	BKN	075		10.00		63	52	57	68	0	00	29.05	30.00	22	CLR	NC		10.00		68	52	59	57	0	00	28.78	29.72
			SUNRISE: 0529		MAY 18	SUNSET: 1938										SUNRISE: 0525		MAY 24	SUNSET: 1942								
01	FEW	NC		10.00		57	51	54	81	0	00	29.05	30.00	01	CLR	NC		10.00		64	54	58	70	0	00	28.76	29.68
04	CLR	NC		10.00		54	50	52	87	0	00	29.07	30.01	04	CLR	NC		10.00		57	53	55	87	0	00	28.75	29.68
07	CLR	NC		8.00		55	51	53	87	0	00	29.11	30.07	07	CLR	NC		10.00		61	54	57	78	0	00	28.78	29.72
10	CLR	NC		10.00		72	53	61	52	0	00	29.11	30.06	10	SCT	NC		10.00		70	47	57	44	12	34	28.80	29.74
13	FEW	NC		10.00		78	54	64	43	3	VR	29.06	30.01	13	BKN	060		10.00		70	45	56	41	12	34	28.82	29.76
16	CLR	NC		10.00		82	52	64	35	6	VR	29.02	29.96	16	FEW	NC		10.00		68	43	55	41	8	04	28.85	29.80
19	CLR	NC		10.00		78	49	61	36	5	23	29.02	29.96	19	BKN	070		10.00		64	42	53	45	6	VR	28.88	29.83
22	CLR	NC		10.00		66																					

## OBSERVATIONS AT 3-HOURLY INTERVALS

## OAK RIDGE, TN

MAY 2005

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES,HG)		
				DRY BULB	DEW POINT					WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	DRY BULB	DEW POINT					WET BULB	SPEED (MPH)					DIRECTION TENS OF DEG	STATION	SEA LEVEL						
						SUNRISE: 0525																														
01	CLR	NC						10.00		52	46	49	80	0	00	28.91	29.86	01	CLR	NC						10.00			61	56	58	84	0	00	29.01	29.95
04	CLR	NC						10.00		49	45	47	86	0	00	28.90	29.86	04	CLR	NC					9.00			58	55	56	90	3	05	29.01	29.95	
07	CLR	NC						10.00		52	48	50	86	0	00	28.96	29.92	07	CLR	NC					6.00			60	56	58	86	0	00	29.06	29.99	
10	OVC	034						10.00		62	47	54	58	9	05	28.98	29.93	10	CLR	NC					10.00			73	58	64	59	6	VR	29.05	29.99	
13	BKN	055						10.00		69	45	56	42	6	VR	28.97	29.93	13	CLR	NC					10.00			79	55	64	44	6	VR	29.02	29.96	
16	FEW	NC						10.00		71	44	56	38	6	VR	28.96	29.91	16	CLR	NC					10.00			79	56	65	45	6	VR	28.97	29.91	
19	CLR	NC						10.00		66	44	54	45	6	36	28.97	29.93	19	FEW	NC					10.00			76	59	65	56	3	VR	28.99	29.93	
22	CLR	NC						10.00		57	46	51	67	0	00	29.02	29.98	22	OVC	060					10.00			74	58	64	57	5	VR	29.02	29.94	
						SUNRISE: 0524																														
01	CLR	NC						10.00		52	47	49	83	0	00	29.02	29.98																			
04	CLR	NC						8.00		49	46	47	90	0	00	29.02	29.97																			
07	CLR	NC						6.00	BR	51	47	49	86	0	00	29.05	30.01																			
10	CLR	NC						10.00		67	50	57	55	3	VR	29.05	30.01																			
13	FEW	NC						10.00		73	50	60	44	0	00	29.02	29.97																			
16	FEW	NC						10.00		76	51	61	42	3	VR	28.97	29.92																			
19	CLR	NC						10.00		76	52	62	43	3	16	28.96	29.91																			
22	CLR	NC						10.00		65	56	60	73	0	00	29.01	29.96																			
						SUNRISE: 0524																														
01	CLR	NC						10.00		60	55	57	84	0	00	29.02	29.96																			
04	FEW	NC						9.00		59	55	57	87	0	00	29.02	29.96																			
07	CLR	NC						6.00	BR	60	57	58	90	0	00	29.06	30.00																			
10	SCT	NC						10.00		71	55	62	57	6	15	29.06	30.00																			
13	FEW	NC						10.00		79	53	63	41	7	VR	29.03	29.96																			
16	CLR	NC						10.00		81	48	62	32	5	VR	28.99	29.92																			
19	CLR	NC						10.00		78	47	60	33	5	28	29.00	29.94																			
22	CLR	NC						10.00		63	52	57	68	0	00	29.02	29.96																			
						SUNRISE: 0523																														
01	CLR	NC						10.00		58	53	55	84	0	00	29.00	29.93																			
04	OVC	110						10.00		60	53	56	78	0	00	28.99	29.92																			
07	OVC	070						10.00		61	53	57	75	0	00	29.04	29.98																			
10	FEW	NC						10.00		67	51	58	57	3	VR	29.05	30.00																			
13	BKN	048						10.00		73	53	61	50	3	VR	29.03	29.98																			
16	CLR	NC						10.00		79	33	56	19	6	36	29.00	29.94																			
19	CLR	NC						10.00		76	34	55	22	0	00	29.00	29.94																			
22	CLR	NC						10.00		61	46	53	58	0	00	29.03	29.98																			
						SUNRISE: 0523																														
01	CLR	NC						10.00		54	46	50	75	0	00	29.04	29.99																			
04	CLR	NC						10.00		52	47	49	83	0	00	29.05	29.99																			
07	CLR	NC						10.00		53	48	50	83	0	00	29.08	30.03																			
10	CLR	NC						10.00		67	49	57	53	5	20	29.08	30.04																			
13	CLR	NC						10.00		69	52	59	55	3	VR	29.08	30.03																			
16	CLR	NC						10.00		72	51	60	48	6	VR	29.05	30.00																			
19	CLR	NC						10.00		68	51	58	55	0	00	29.05	30.00																			
22	CLR	NC						10.00		63	54	58	73	0	00	29.05	30.00																			
						SUNRISE: 0522																														
01	CLR	NC						10.00		57	54	55	90	0	00	29.02	29.97																			
04	CLR	NC						10.00		55	52	53	90	0	00	29.02	29.97																			
07	FEW	NC						8.00		56	53	54	90	3	VR	29.04	30.00																			
10	CLR	NC						10.00		69	57	62	66	3	VR	29.03	29.98																			
13	CLR	NC						10.00		78	52	63	40	6	VR	29.01	29.95																			
16	CLR	NC						10.00		80	50	62	35	8	05	28.95	29.89																			
19	CLR	NC						10.00		77	53	63	44	3	VR	28.95	29.89																			
22	CLR	NC						10.00		65	56	60	73	3	VR	29.00	29.94																			

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, VV = 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	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG)			

## 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, VV = 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.

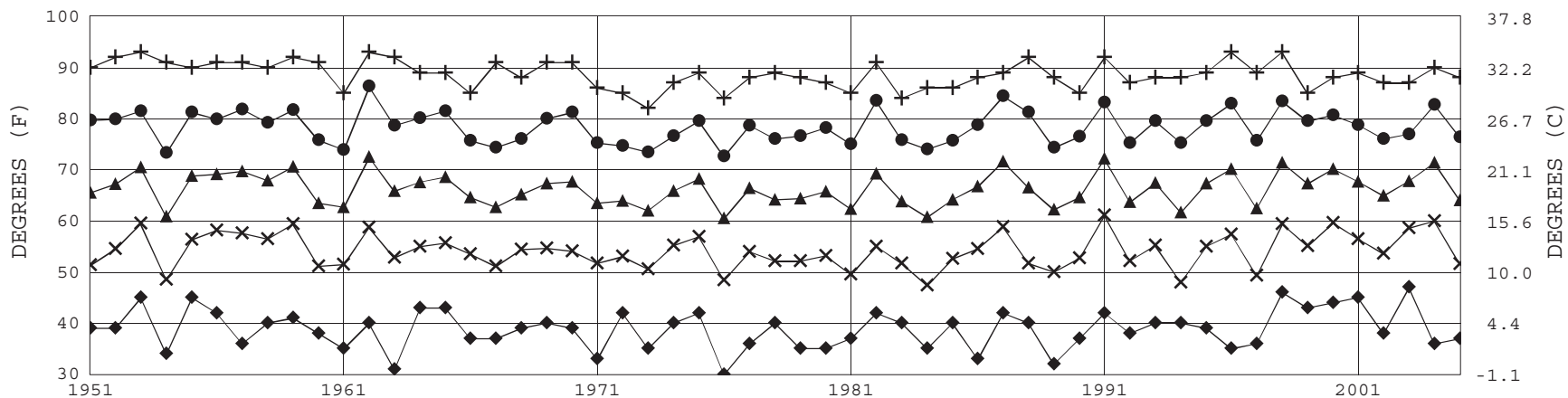
See page 3 for additional notes.

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)	
							STATION	SEA LEVEL			SPEED	DIRECTION
01			57	51	53	82	29.05	30.00	7.87	1	1	5
02			55	51	53	85	29.05	30.00	7.73	1	0	0
03			55	51	52	87	29.05	30.00	7.17	0	0	0
04			54	50	52	87	29.05	30.00	7.35	0	0	0
05			53	50	51	89	29.06	30.01	6.63	1	0	0
06			53	50	51	89	29.07	30.02	6.07	0	0	0
07			55	51	53	86	29.08	30.04	6.48	1	0	0
08			59	52	55	78	29.09	30.05	8.24	2	1	9
09			63	52	57	68	29.10	30.06	9.35	2	1	6
10			66	50	58	58	29.09	30.05	9.58	3	1	9
11			69	50	58	53	29.09	30.04	9.58	3	1	4
12			71	50	60	50	29.08	30.03	9.52	2	0	0
13			73	50	60	45	29.06	30.01	9.74	4	1	27
14			74	49	60	44	29.05	30.00	9.52	3	1	27
15			74	49	60	43	29.03	29.98	9.74	3	0	0
16			75	48	60	42	29.02	29.97	9.68	3	1	26
17			75	48	60	41	29.02	29.97	9.81	4	1	29
18			74	48	59	43	29.01	29.96	9.74	3	0	0
19			72	49	59	46	29.02	29.97	9.68	2	1	25
20			68	51	58	56	29.03	29.98	9.61	1	1	34
21			65	51	57	64	29.04	30.00	9.61	0	0	0
22			62	52	57	69	29.05	30.00	9.27	0	0	0
23			60	52	56	74	29.05	30.00	8.85	0	0	0
24			59	52	55	79	29.05	30.00	8.37	1	0	0



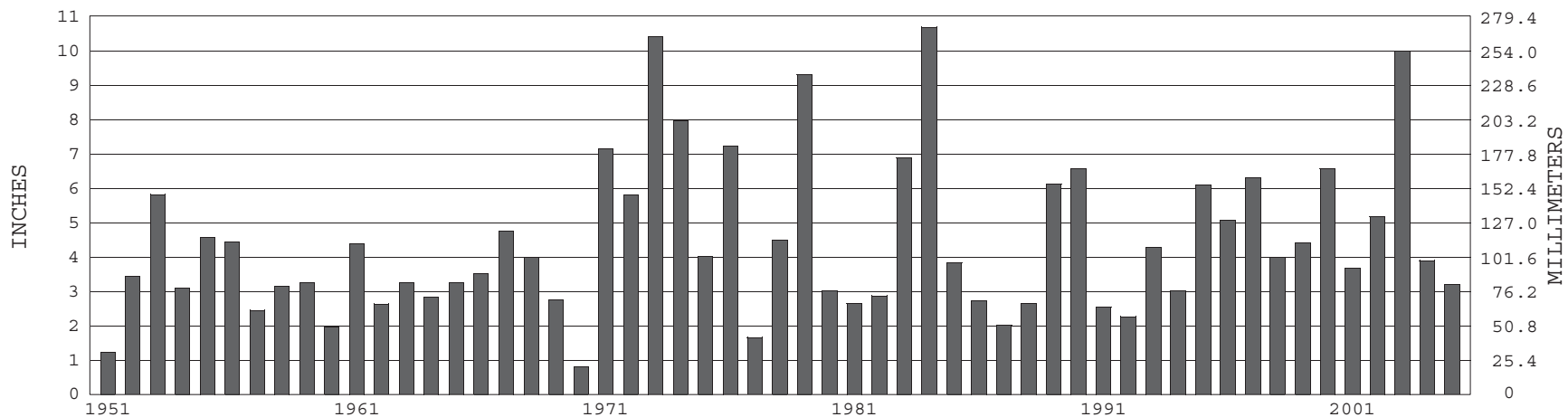
# OAK RIDGE, TN MAY TEMPERATURES



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

Long-Term (1951-2005) Mean: 66.3    1971-2000 Normal: 65.6

# OAK RIDGE, TN MAY PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 4.45

1971-2000 Normal: 5.14



MAY 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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