OCTOBER 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 MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0700 LST DEPTH	1300 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW–FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5–SEC SPEED	5–SEC DIR	MAXIMUM 2–MIN SPEED	2–MIN DIR	DATE
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	83	59	71	7	61	64	0	6	BR				0.00	29.25	30.20	0.1	34	.3	10	19	7	19	01
02	86	62	74	10	61	65	0	9	FG+ BR HZ				0.00	29.32	30.26	0.9	07	2.2	10	12	9	13	02
03	87*	60	74*	10	60	64	0	9	FG BR HZ				0.00	29.30	30.25	1.3	05	2.3	13	08	9	07	03
04	86	58	72	9	56	62	0	7	FG+ BR				0.00	29.26	30.21	1.0	05	2.1	12	02	9	01	04
05	86	57	72	9	58	63	0	7	BR				0.00	29.17	30.12	2.0	06	3.1	13	06	10	06	05
06	72	64	68	6	64	66	0	3	RA BR				0.27	29.00	29.94	1.8	04	4.8	18	05	12	05	06
07	71	59	65	3	62	63	0	0	RA				0.10	28.86	29.80	2.2	03	3.5	12	35	8	01	07
08	66	56	61	0	52	56	4	0					0.00	28.89	29.84	2.7	05	4.7	15	03	12	05	08
09	68	56	62	1	53	56	3	0					0.00	28.93	29.88	2.0	05	4.7	15	05	12	05	09
10	80	60	70	9	60	63	0	5	RA				T	28.98	29.93	0.4	35	1.3	12	27	8	27	10
11	75	58	67	7	59	61	0	2	BR				0.00	29.05	29.99	2.2	06	2.5	15	05	12	05	11
12	80	60	70	10	60	63	0	5	BR				0.00	29.06	30.00	0.4	02	1.4	10	06	8	07	12
13	77	58	68	9	58	60	0	3	BR				0.00	29.10	30.05	0.4	35	1.3	12	33	9	33	13
14	77	54	66	7	53	58	0	1	BR HZ				0.00	29.12	30.07	1.1	06	2.2	16	06	12	06	14
15	81	48	65	6	48	55	0	0	FG+ BR				0.00	29.05	30.01	1.0	26	2.5	18	28	12	26	15
16	73	43	58	0	37	48	7	0					0.00	29.10	30.06	0.7	35	2.2	13	07	10	07	16
17	73	40	57	-1	42	48	8	0					0.00	29.06	30.04	0.8	19	1.1	12	19	8	20	17
18	79	46	63	5	50	55	2	0					0.00	29.02	29.98	0.7	23	1.9	12	21	9	25	18
19	83	56	70	13	58	62	0	5	BR HZ				0.00	29.03	29.97	0.7	26	2.3	14	21	10	20	19
20	83	60	72	15	59	63	0	7	BR HZ				0.00	29.00	29.93	1.7	21	2.8	14	20	12	18	20
21	79	55	67	11	58	61	0	2	RA FG+ BR HZ				1.39	28.89	29.84	1.2	22	3.0	33*	22	21*	22	21
22	63	43	53	-3	47	51	12	0					0.00	28.91	29.87	1.9	26	4.0	16	25	10	25	22
23	65	40	53	-3	42	46	12	0	RA FG+ BR				0.04	28.93	29.91	1.3	30	2.8	18	36	13	35	23
24	47	37	42*	-13	36	41	23	0	RA BR				0.01	28.98	29.96	0.4	31	1.9	14	31	10	32	24
25	50	44	47	-8	36	42	18	0	RA				T	28.97	29.96	0.9	28	3.5	21	31	13	27	25
26	60	35	48	-7	36	41	17	0	BR HZ				0.00	29.16	30.15	0.3	01	1.3	10	04	8	21	26
27	57	34	46	-8	35	40	19	0	FG+ BR				0.00	29.25	30.25	1.2	06	2.4	14	19	10	06	27
28	59	34	47	-7	33	41	18	0					0.00	29.33	30.33	2.0	05	2.6	15	08	13	07	28
29	61	33	47	-6	32	39	18	0					0.00	29.43	30.43	0.9	04	2.1	13	06	10	06	29
30	66	32*	49	-4	34	40	16	0	FG+ BR				0.00	29.43	30.43	0.0	00	.0	9	27	7	20	30
31	69	33	51	-2	37	43	14	0	BR				0.00	29.30	30.29	0.6	22	1.2	12	19	10	16	31
	72.3	49.5	60.9		49.6	54.2	6.2	2.3	< MONTHLY AVERAGES TOTALS–>				1.81	29.10	30.06	0.5	03	2.4					<– MONTHLY AVERAGES
	1.2	3.8	2.5		<–––––––––––DEPARTURE FROM NORMAL–––––––––––>								-1.21	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	191	-39	191	-69
COOLING:	71	48	1622	322

GREATEST 24–HR PRECIPITATION: 1.39 DATE :21
GREATEST 24–HR SNOWFALL: DATE :
GREATEST SNOW DEPTH: DATE :

SEA LEVEL PRESSURE DATE TIME
MAXIMUM : 30.53 30 0853
MINIMUM : 29.76 21 1353

NUMBER OF DAYS WITH →
MAXIMUM TEMP ≥ 90: 0
MAXIMUM TEMP ≤ 32 : 0
THUNDERSTORMS : 0
MINIMUM TEMP ≤ 32 : 1
MINIMUM TEMP ≤ 0 : 0
HEAVY FOG : 7
PRECIPITATION ≥ 0.01 INCH : 5
PRECIPITATION ≥ 0.10 INCH : 3
SNOWFALL ≥ 1.0 INCH :

OCTOBER 2005
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

OCTOBER 2005 OQT WBAN # 53868

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	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
02													02													02		0.00
03													03													03		0.00
04													04													04		0.00
05													05													05		0.00
06								T	T	T	0.01	0.03	06	0.06	T	T	0.12	0.04	0.01							06		0.27
07												T	07	0.01	0.04	0.02	0.01	0.02	T	T	T						07		0.10
08													08													08		0.00
09													09													09		0.00
10			T	T	T								10													10		T
11													11													11		0.00
12													12													12		0.00
13													13													13		0.00
14													14													14		0.00
15													15													15		0.00
16													16													16		0.00
17													17													17		0.00
18													18													18		0.00
19													19													19		0.00
20													20													20		0.00
21													21			0.64	0.72	0.03	T						21		1.39
22													22													22		0.00
23													23									T		0.01	0.03	23		0.04
24	0.01												24							T	T				T	24		0.01
25													25		T											25		T
26													26													26		0.00
27													27													27		0.00
28													28													28		0.00
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)	.44	.62	.90	1.05	1.15	1.31	1.36	1.36	1.36	1.38	1.39	1.39
Ending Date	21	21	21	21	21	21	21	21	21	21	21	21
Ending Time (Hour/Min)	1458	1458	1457	1459	1504	1523	1526	1526	1526	1633	1633	1633

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 occurence 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	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
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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
			SR−SS		MN−MN				
	TOTAL MINUTES	PERCENT POSSIBLE	CEILOMETER	SATELLITE	CEILOMETER	SATELLITE	MINIMUM	MAXIMUM	
01							4.00	10.00	
02							.25	10.00	
03							.50	10.00	
04							<.25	10.00	
05							5.00	10.00	
06							3.00	10.00	
07							8.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							8.00	10.00	
11							3.00	10.00	
12							4.00	10.00	
13							4.00	10.00	
14							4.00	10.00	
15							.25	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							1.75	10.00	
20							2.50	10.00	
21							.25	10.00	
22							9.00	10.00	
23							<.25	10.00	
24							4.00	10.00	
25							10.00	10.00	
26							3.00	10.00	
27							.50	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							<.25	10.00	
31							1.25	10.00	
MONTHLY AVGS							4.66	10.00	

SUNSHINE (MINUTES)

Total: Possible:
Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR	PTLY CLDY	CLOUDY	MISSING
			31

MINIMUM VISIBILITY (MILES)

<=0.25	<=3.0	>=7.0
6	14	11

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2005 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉ DRY BULB	TEMPERATURE ℉ DEW POINT	TEMPERATURE ℉ WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0632	**OCT 01**			**SUNSET: 1820**					
01	BKN	060			8.00		63	59	61	87	0	00	29.16	30.11
04	SCT	NC			5.00	BR	60	58	59	93	0	00	29.19	30.14
07	SCT	NC			4.00	BR	59	57	58	93	0	00	29.26	30.22
10	OVC	032			10.00		70	60	64	71	0	00	29.31	30.26
13	BKN	032			10.00		76	61	67	60	0	00	29.28	30.23
16	CLR	NC			10.00		81	63	69	54	0	00	29.24	30.18
19	CLR	NC			9.00		74	65	68	74	0	00	29.25	30.20
22	CLR	NC			5.00	BR	67	64	65	91	0	00	29.28	30.23
					SUNRISE: 0633	**OCT 02**			**SUNSET: 1819**					
01	CLR	NC			3.00	BR	65	63	64	93	0	00	29.30	30.25
04	VV	001			0.25	FG	62	61	61	96	3	06	29.30	30.25
07	VV	001			0.25	FG	62	61	61	96	3	VR	29.35	30.30
10	CLR	NC			8.00		74	62	66	67	6	06	29.37	30.32
13	CLR	NC			10.00		82	61	69	49	5	16	29.33	30.27
16	CLR	NC			10.00		84	58	68	41	3	VR	29.28	30.22
19	CLR	NC			10.00		75	62	67	64	0	00	29.28	30.22
22	BKN	055			6.00	HZ	67	62	64	84	0	00	29.31	30.25
					SUNRISE: 0634	**OCT 03**			**SUNSET: 1817**					
01	CLR	NC			5.00	BR	63	60	61	90	0	00	29.31	30.25
04	CLR	NC			4.00	BR	61	59	60	93	0	00	29.32	30.26
07	OVC	001			0.50	FG	60	58	59	93	3	07	29.35	30.31
10	OVC	060			8.00		73	62	66	69	5	VR	29.37	30.32
13	CLR	NC			10.00		82	63	70	53	7	VR	29.30	30.24
16	CLR	NC			10.00		86	58	68	39	3	VR	29.24	30.18
19	CLR	NC			10.00		75	62	67	64	0	00	29.25	30.20
22	CLR	NC			6.00	HZ	67	62	64	84	0	00	29.28	30.23
					SUNRISE: 0635	**OCT 04**			**SUNSET: 1816**					
01	CLR	NC			5.00	BR	64	61	62	90	0	00	29.29	30.23
04	CLR	NC			3.00	BR	61	58	59	90	0	00	29.30	30.24
07	VV	001			<.25	FG	58	57	57	97	0	00	29.33	30.29
10	CLR	NC			10.00		72	56	62	57	5	VR	29.34	30.29
13	CLR	NC			10.00		81	56	66	42	3	VR	29.27	30.21
16	CLR	NC			10.00		85	49	64	29	5	VR	29.20	30.14
19	CLR	NC			10.00		73	56	63	55	0	00	29.19	30.15
22	CLR	NC			10.00		63	57	60	81	0	00	29.21	30.16
					SUNRISE: 0635	**OCT 05**			**SUNSET: 1815**					
01	CLR	NC			9.00		60	56	58	86	0	00	29.22	30.16
04	CLR	NC			7.00		58	55	56	90	0	00	29.21	30.16
07	CLR	NC			5.00	BR	58	55	56	90	3	07	29.25	30.21
10	CLR	NC			10.00		73	58	64	59	7	06	29.23	30.18
13	CLR	NC			10.00		81	59	67	47	8	05	29.16	30.11
16	CLR	NC			10.00		85	58	68	40	3	VR	29.10	30.04
19	CLR	NC			10.00		77	61	67	58	0	00	29.10	30.05
22	CLR	NC			10.00		70	61	64	73	0	00	29.11	30.05
					SUNRISE: 0636	**OCT 06**			**SUNSET: 1813**					
01	CLR	NC			10.00		65	60	62	84	0	00	29.09	30.03
04	CLR	NC			10.00		65	60	62	84	0	00	29.06	29.99
07	BKN	085			10.00		69	61	64	76	5	VR	29.06	29.99
10	FEW	NC			10.00		68	64	66	87	3	VR	29.05	29.99
13	SCT	NC			8.00	-RA	69	66	67	90	8	03	28.99	29.93
16	BKN	015			4.00	-RA BR	69	67	68	93	5	VR	28.94	29.88
19	OVC	060			10.00		69	66	67	90	5	VR	28.93	29.86
22	OVC	055			10.00		70	65	67	84	6	VR	28.93	29.87
					SUNRISE: 0637	**OCT 07**			**SUNSET: 1812**					
01	OVC	046			10.00		68	63	65	84	6	05	28.91	29.84
04	OVC	044			10.00		68	63	65	84	3	07	28.87	29.81
07	OVC	037			10.00		67	63	64	87	0	00	28.87	29.81
10	OVC	037			10.00		71	64	67	79	0	00	28.89	29.82
13	OVC	020			10.00	-RA	70	66	67	87	0	00	28.85	29.79
16	OVC	014			10.00	-RA	67	63	64	87	3	VR	28.82	29.76
19	OVC	036			10.00	-RA	62	58	60	86	6	VR	28.85	29.79
22	OVC	041			10.00		60	55	57	84	6	36	28.86	29.80
					SUNRISE: 0638	**OCT 08**			**SUNSET: 1810**					
01	OVC	038			10.00		58	53	55	84	3	36	28.84	29.79
04	OVC	045			10.00		58	53	55	84	0	00	28.84	29.79
07	OVC	040			10.00		57	52	54	83	0	00	28.87	29.82
10	OVC	031			10.00		61	53	57	75	6	06	28.90	29.86
13	OVC	037			10.00		64	54	58	70	6	VR	28.88	29.83
16	OVC	041			10.00		63	53	57	70	8	04	28.88	29.84
19	OVC	033			10.00		58	51	54	78	6	VR	28.92	29.88
22	OVC	027			10.00		57	50	53	78	6	VR	28.94	29.90
					SUNRISE: 0639	**OCT 09**			**SUNSET: 1809**					
01	OVC	026			10.00		56	50	53	81	5	VR	28.91	29.87
04	OVC	025			10.00		56	50	53	81	5	VR	28.90	29.85
07	OVC	036			10.00		57	50	53	78	6	VR	28.92	29.88
10	OVC	032			10.00		61	52	56	72	6	06	28.95	29.91
13	OVC	028			10.00		63	53	57	70	5	VR	28.92	29.87
16	OVC	031			10.00		67	55	60	66	0	00	28.90	29.85
19	OVC	026			10.00		64	56	59	75	5	05	28.93	29.88
22	OVC	042			10.00		62	54	57	75	5	05	28.96	29.91
					SUNRISE: 0640	**OCT 10**			**SUNSET: 1808**					
01	OVC	045			10.00		61	55	58	81	0	00	28.95	29.91
04	OVC	041			10.00		60	57	58	90	0	00	28.96	29.91
07	OVC	049			10.00		61	57	59	87	0	00	28.98	29.93
10	BKN	060			10.00		70	59	63	68	0	00	29.01	29.95
13	FEW	NC			10.00		79	63	69	58	7	VR	28.97	29.90
16	BKN	075			10.00		79	62	68	56	6	VR	28.96	29.90
19	FEW	NC			10.00		70	62	65	76	0	00	29.00	29.94
22	CLR	NC			8.00		64	61	62	90	0	00	29.03	29.97
					SUNRISE: 0640	**OCT 11**			**SUNSET: 1806**					
01	CLR	NC			7.00		61	59	60	93	0	00	29.04	29.97
04	FEW	NC			3.00	BR	59	57	58	93	0	00	29.03	29.96
07	OVC	005			6.00	BR	59	56	57	90	0	00	29.06	30.01
10	BKN	015			10.00		67	61	63	81	6	08	29.08	30.03
13	OVC	019			10.00		71	61	65	71	7	05	29.06	30.00
16	FEW	NC			10.00		73	60	65	64	9	06	29.04	29.98
19	CLR	NC			10.00		67	60	63	79	0	00	29.04	29.99
22	CLR	NC			7.00		62	59	60	90	0	00	29.06	30.01
					SUNRISE: 0641	**OCT 12**			**SUNSET: 1805**					
01	BKN	045			5.00	BR	61	59	60	93	0	00	29.04	29.98
04	BKN	050			8.00		63	60	61	90	0	00	29.04	29.98
07	FEW	NC			4.00	BR	61	58	59	90	0	00	29.07	30.02
10	CLR	NC			10.00		71	60	64	68	6	VR	29.09	30.04
13	FEW	NC			10.00		76	60	66	58	0	00	29.05	29.99
16	CLR	NC			10.00		78	59	66	52	0	00	29.02	29.95
19	FEW	NC			10.00		73	60	65	64	3	VR	29.05	29.99
22	CLR	NC			9.00		64	59	61	84	0	00	29.08	30.02

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2005 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉ DRY BULB	TEMPERATURE ℉ DEW POINT	TEMPERATURE ℉ WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0642	**OCT 13**			**SUNSET: 1804**					
01	CLR	NC			6.00	BR	61	58	59	90	0	00	29.08	30.02
04	BKN	047			6.00	BR	59	56	57	90	0	00	29.08	30.02
07	OVC	028			4.00	BR	59	56	57	90	0	00	29.10	30.06
10	OVC	025			8.00		66	59	62	78	0	00	29.13	30.08
13	BKN	043			10.00		75	59	65	58	0	00	29.08	30.03
16	BKN	035			10.00		74	59	65	60	7	VR	29.07	30.01
19	CLR	NC			10.00		64	58	60	81	0	00	29.09	30.05
22	CLR	NC			7.00		59	56	57	90	0	00	29.11	30.07
					SUNRISE: 0643	**OCT 14**			**SUNSET: 1802**					
01	BKN	040			6.00	BR	59	55	57	87	0	00	29.11	30.06
04	FEW	NC			4.00	BR	56	53	54	90	0	00	29.10	30.06
07	CLR	NC			4.00	BR	55	52	53	90	0	00	29.12	30.09
10	CLR	NC			7.00		68	56	61	66	3	VR	29.16	30.12
13	CLR	NC			10.00		75	51	61	43	6	VR	29.12	30.07
16	CLR	NC			10.00		74	51	61	45	6	VR	29.09	30.04
19	CLR	NC			10.00		65	54	59	68	0	00	29.10	30.07
22	CLR	NC			7.00		60	54	57	80	0	00	29.11	30.07
					SUNRISE: 0644	**OCT 15**			**SUNSET: 1801**					
01	CLR	NC			5.00	BR	55	52	53	90	0	00	29.11	30.06
04	CLR	NC			5.00	BR	51	49	50	92	0	00	29.09	30.05
07	VV	001			0.25	FG	48	47	47	96	0	00	29.11	30.08
10	CLR	NC			10.00		66	53	59	63	0	00	29.10	30.06
13	CLR	NC			10.00		77	52	62	42	6	VR	29.04	29.98
16	CLR	NC			10.00		81	45	61	28	7	VR	28.97	29.91
19	CLR	NC			10.00		69	46	57	44	0	00	28.99	29.95
22	CLR	NC			10.00		58	46	52	65	3	18	29.04	30.00
					SUNRISE: 0645	**OCT 16**			**SUNSET: 1760**					
01	CLR	NC			10.00		53	43	48	69	0	00	29.07	30.02
04	CLR	NC			10.00		49	40	45	71	0	00	29.08	30.03
07	CLR	NC			10.00		43	39	41	86	0	00	29.11	30.09
10	CLR	NC			10.00		63	36	50	37	6	VR	29.14	30.11
13	CLR	NC			10.00		69	30	51	23	5	VR	29.11	30.08
16	CLR	NC			10.00		72	33	53	24	7	36	29.07	30.03
19	CLR	NC			10.00		58	40	49	51	0	00	29.08	30.06
22	CLR	NC			10.00		51	40	46	66	0	00	29.10	30.07
					SUNRISE: 0646	**OCT 17**			**SUNSET: 1758**					
01	CLR	NC			10.00		45	40	43	83	0	00	29.09	30.06
04	CLR	NC			10.00		42	39	41	89	0	00	29.08	30.06
07	CLR	NC			10.00		40	38	39	93	0	00	29.10	30.09
10														
13	CLR	NC			10.00		69	41	54	36	0	00	29.08	30.04
16	CLR	NC			10.00		71	42	56	35	8	18	29.01	29.98
19	CLR	NC			10.00		61	45	53	56	0	00	29.03	30.00
22	CLR	NC			10.00		54	46	50	75	0	00	29.04	30.00
					SUNRISE: 0647	**OCT 18**			**SUNSET: 1757**					
01	CLR	NC			10.00		51	46	49	83	0	00	29.03	29.99
04	CLR	NC			10.00		48	44	46	86	0	00	29.04	29.99
07	CLR	NC			10.00		47	44	46	90	0	00	29.07	30.03
10	CLR	NC			10.00		61	47	54	60	3	VR	29.08	30.04
13	CLR	NC			10.00		75	49	60	40	7	22	29.01	29.96
16	CLR	NC			10.00		78	53	63	42	5	VR	28.97	29.92
19	SCT	NC			10.00		70	57	62	64	0	00	28.99	29.95
22	CLR	NC			10.00		62	56	59	81	0	00	29.02	29.97

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE OBSERVATION TIME (LST)	SATELLITE EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉ DRY BULB	TEMPERATURE ℉ DEW POINT	TEMPERATURE ℉ WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION TENS OF DEG	PRESSURE (INCHES,HG) STATION	PRESSURE (INCHES,HG) SEA LEVEL
					SUNRISE: 0648	**OCT 19**			**SUNSET: 1756**					
01	CLR	NC			8.00		59	56	57	90	0	00	29.03	29.97
04	CLR	NC			6.00	BR	57	54	55	90	0	00	29.04	29.98
07	CLR	NC			3.00	BR	56	54	55	93	3	26	29.08	30.03
10	CLR	NC			10.00		69	57	62	66	7	VR	29.08	30.03
13	CLR	NC			10.00		79	59	66	50	3	VR	29.02	29.96
16	CLR	NC			10.00		83	60	68	46	6	VR	28.98	29.92
19	CLR	NC			10.00		73	62	66	69	0	00	28.99	29.94
22	CLR	NC			7.00		66	62	64	87	0	00	29.01	29.95
					SUNRISE: 0648	**OCT 20**			**SUNSET: 1755**					
01	CLR	NC			4.00	BR	63	61	62	93	5	25	29.01	29.94
04	CLR	NC			3.00	BR	61	59	60	93	0	00	29.02	29.95
07	CLR	NC			2.50	BR	60	58	59	93	3	23	29.04	29.98
10	CLR	NC			8.00		72	61	65	69	7	VR	29.06	30.00
13	CLR	NC			10.00		81	59	67	47	5	18	29.00	29.93
16	FEW	NC			10.00		82	56	66	41	7	20	28.94	29.88
19	CLR	NC			10.00		71	58	63	63	0	00	28.95	29.89
22	CLR	NC			8.00		64	59	61	84	0	00	28.98	29.92
					SUNRISE: 0649	**OCT 21**			**SUNSET: 1753**					
01	CLR	NC			5.00	BR	60	57	58	90	0	00	28.97	29.90
04	CLR	NC			3.00	BR	57	55	56	93	0	00	28.95	29.88
07	SCT	NC			2.50	BR	55	53	54	93	0	00	28.95	29.90
10	OVC	095			10.00		69	55	61	61	5	VR	28.94	29.88
13	BKN	055			10.00		79	59	66	50	12	19	28.85	29.78
16	BKN	070			4.00	BR	66	63	64	90	0	00	28.81	29.77
19	FEW	NC			1.50	BR	65	63	64	93	0	00	28.83	29.78
22	CLR	NC			10.00		62	58	60	86	5	21	28.86	29.81
					SUNRISE: 0650	**OCT 22**			**SUNSET: 1752**					
01	BKN	070			10.00		62	55	58	78	6	VR	28.84	29.78
04	OVC	038			10.00		59	52	55	78	6	VR	28.86	29.80
07	OVC	027			10.00		56	50	53	81	9	25	28.87	29.82
10	OVC	018			10.00		55	48	51	77	5	VR	28.90	29.85
13	OVC	029			10.00		56	46	51	70	5	VR	28.92	29.88
16	OVC	048			10.00		60	41	50	50	3	VR	28.92	29.87
19	CLR	NC			10.00		51	45	48	80	0	00	28.95	29.92
22	CLR	NC			10.00		47	44	46	90	0	00	28.97	29.94
					SUNRISE: 0651	**OCT 23**			**SUNSET: 1751**					
01	BKN	008			0.50	FG	42	41	42	96	0	00	28.96	29.93
04	VV	001			0.25	FG	41	41	41	100	0	00	28.93	29.90
07	OVC	001			0.50	FG	41	40	41	96	0	00	28.95	29.93
10	OVC	003			9.00		46	44	45	93	0	00	28.98	29.97
13	CLR	NC			10.00		62	43	52	50	5	VR	28.90	29.88
16	CLR	NC			10.00		64	40	52	41	3	VR	28.85	29.82
19	BKN	110			10.00		59	46	52	62	6	VR	28.86	29.84
22	OVC	048			10.00		51	39	45	64	5	34	28.96	29.93
					SUNRISE: 0652	**OCT 24**			**SUNSET: 1750**					
01	OVC	070			10.00		43	40	42	89	3	08	29.01	29.98
04	CLR	NC			8.00		41	39	40	93	0	00	29.01	29.98
07	CLR	NC			6.00	BR	38	35	37	89	0	00	29.01	29.99
10	FEW	NC			10.00		46	34	41	63	7	25	29.01	29.99
13	OVC	031			10.00		47	34	41	61	5	VR	28.97	29.96
16	OVC	032			10.00		46	35	41	66	0	00	28.96	29.95
19	OVC	037			10.00		47	37	42	69	0	00	28.95	29.94
22	OVC	039			10.00		47	35	42	63	0	00	28.94	29.92

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2005 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0653	OCT 25			SUNSET: 1749					
01	OVC	035			10.00		46	34	41	63	0	00	28.90	29.88
04	OVC	034			10.00		45	37	41	74	3	19	28.88	29.86
07	OVC	035			10.00		46	37	42	71	3	VR	28.89	29.88
10	OVC	037			10.00		49	34	42	57	13	29	28.93	29.91
13	OVC	038			10.00		49	35	43	59	7	VR	28.94	29.92
16	OVC	028			10.00		47	36	42	66	6	VR	29.01	29.99
19	OVC	055			10.00		47	37	42	69	0	00	29.07	30.06
22	OVC	070			10.00		45	38	42	77	0	00	29.09	30.09
					SUNRISE: 0654	OCT 26			SUNSET: 1747					
01	OVC	065			10.00		44	38	41	79	0	00	29.08	30.07
04	CLR	NC			10.00		40	37	39	89	0	00	29.10	30.10
07	CLR	NC			10.00		36	33	35	89	0	00	29.15	30.15
10	CLR	NC			10.00		50	38	44	63	0	00	29.20	30.19
13	OVC	049			10.00		56	35	46	46	5	VR	29.16	30.14
16	CLR	NC			10.00		59	32	47	36	5	32	29.12	30.11
19	CLR	NC			10.00		46	37	42	71	0	00	29.16	30.16
22	CLR	NC			10.00		39	36	38	89	0	00	29.20	30.20
					SUNRISE: 0655	OCT 27			SUNSET: 1746					
01	CLR	NC			10.00		37	34	36	89	0	00	29.22	30.22
04	CLR	NC			8.00		35	33	34	93	0	00	29.22	30.21
07	BKN	001			1.00	BR	35	34	35	96	3	05	29.24	30.25
10	OVC	055			10.00		47	38	43	71	5	VR	29.28	30.28
13	OVC	065			10.00		55	35	46	47	7	08	29.23	30.22
16	OVC	070			10.00		56	35	46	46	6	VR	29.21	30.21
19	FEW	NC			10.00		46	37	42	71	0	00	29.25	30.26
22	OVC	060			10.00		42	36	39	79	0	00	29.29	30.29
					SUNRISE: 0656	OCT 28			SUNSET: 1745					
01	OVC	065			10.00		43	37	40	80	0	00	29.29	30.28
04	CLR	NC			10.00		38	34	36	86	0	00	29.28	30.28
07	CLR	NC			10.00		34	31	33	89	0	00	29.32	30.33
10	CLR	NC			10.00		51	35	44	54	6	06	29.36	30.36
13	SCT	NC			10.00		57	32	46	39	9	06	29.33	30.32
16	BKN	060			10.00		56	31	45	39	3	VR	29.32	30.31
19	CLR	NC			10.00		49	32	42	52	0	00	29.36	30.36
22	CLR	NC			10.00		43	33	39	68	3	02	29.39	30.38
					SUNRISE: 0657	OCT 29			SUNSET: 1744					
01	CLR	NC			10.00		38	32	36	79	0	00	29.41	30.40
04	CLR	NC			10.00		35	32	34	89	0	00	29.41	30.41
07	CLR	NC			9.00		33	31	32	92	0	00	29.45	30.46
10	CLR	NC			10.00		48	35	42	61	7	VR	29.48	30.49
13	CLR	NC			10.00		58	30	45	35	8	36	29.44	30.44
16	CLR	NC			10.00		60	27	45	28	3	VR	29.41	30.40
19	CLR	NC			10.00		47	34	41	61	0	00	29.41	30.42
22	CLR	NC			10.00		40	34	37	79	0	00	29.43	30.44
					SUNRISE: 0658	OCT 30			SUNSET: 1743					
01	CLR	NC			10.00		36	32	34	86	0	00	29.44	30.44
04	CLR	NC			10.00		33	29	31	85	0	00	29.45	30.45
07	VV	001			0.25	FG	34	33	34	97	0	00	29.47	30.49
10	SCT	NC			8.00		42	40	41	92	0	00	29.50	30.52
13	CLR	NC			10.00		61	35	49	38	0	00	29.42	30.42
16	CLR	NC			10.00		66	31	50	27	0	00	29.38	30.36
19	CLR	NC			10.00		50	35	43	57	0	00	29.39	30.39
22	CLR	NC			10.00		42	35	39	76	0	00	29.40	30.41

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0659	OCT 31			SUNSET: 1742					
01	CLR	NC			10.00		38	33	36	83	0	00	29.38	30.37
04	CLR	NC			10.00		35	32	34	89	0	00	29.38	30.37
07	CLR	NC			7.00		33	30	32	89	0	00	29.41	30.42
10	CLR	NC			10.00		48	40	44	74	0	00	29.41	30.41
13	CLR	NC			10.00		64	39	51	40	7	26	29.31	30.29
16	CLR	NC			10.00		68	38	53	33	5	VR	29.20	30.19
19	CLR	NC			10.00		54	41	48	62	0	00	29.18	30.18
22	CLR	NC			10.00		46	40	43	79	0	00	29.19	30.19

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 Visibilty = 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: CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL	VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH): SPEED	RESULTANT WIND (MPH): DIRECTION
01			54	50	52	85	29.10	30.06	7.95	1	0	0
02			54	49	51	86	29.10	30.06	7.72	1	0	0
03			53	49	51	87	29.10	30.05	7.45	0	0	0
04			52	49	50	88	29.10	30.06	7.21	0	0	0
05			51	48	50	89	29.10	30.06	6.39	1	0	0
06			51	48	50	90	29.11	30.08	6.23	1	0	0
07			51	48	49	89	29.12	30.09	5.80	1	0	0
08			52	49	51	88	29.14	30.11	5.80	1	1	6
09			57	51	53	80	29.14	30.11	8.11	3	2	4
10			62	51	56	69	29.14	30.11	9.53	2	1	4
11			65	50	57	61	29.14	30.10	9.84	3	1	7
12			67	50	58	56	29.12	30.08	9.90	2	0	0
13			69	50	58	53	29.10	30.05	9.94	3	1	8
14			70	49	59	49	29.08	30.03	9.94	2	0	0
15			70	49	58	50	29.07	30.02	9.62	3	1	3
16			70	49	58	49	29.06	30.02	9.61	1	0	0
17			69	49	58	51	29.06	30.02	9.58	2	1	1
18			67	50	57	57	29.07	30.03	9.73	1	1	34
19			62	51	56	68	29.08	30.04	9.69	0	0	0
20			60	51	55	74	29.09	30.06	9.34	1	1	1
21			58	50	54	77	29.09	30.06	9.13	1	1	33
22			56	50	53	80	29.10	30.07	9.03	1	0	0
23			55	50	52	81	29.10	30.06	8.74	1	1	3
24			55	49	52	83	29.10	30.06	8.42	1	1	5

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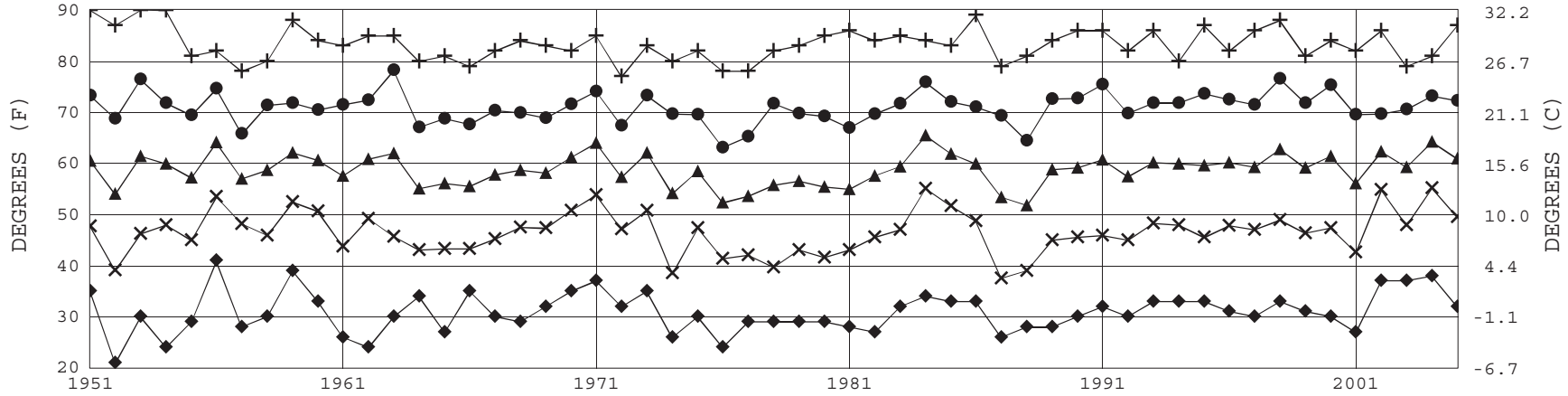
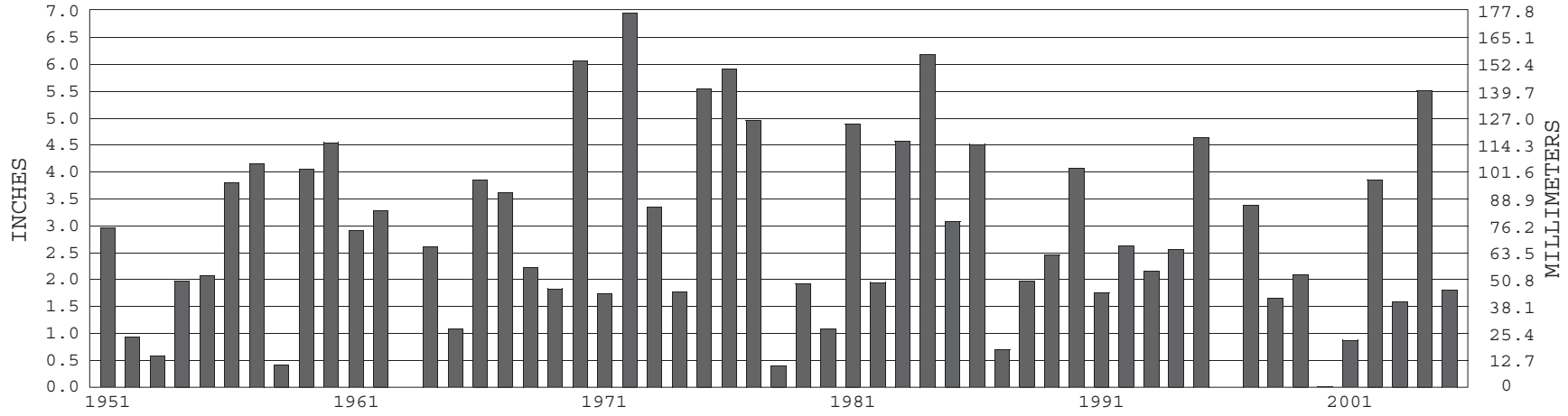
OAK RIDGE, TN OCTOBER TEMPERATURES



Long-Term (1951-2005) Mean: 58.8 1971-2000 Normal: 58.4

OAK RIDGE, TN OCTOBER PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 2.83 1971-2000 Normal: 3.02

OCTOBER 2005

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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