



OCTOBER 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#: 0198-487X



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	79	54	67	3	55	59	0	2	RA BR			0.01	29.13	30.12	0.1	15	0.7	9	34	7	34	01		
02	77	51	64	0	54	57	1	0	FG+ BR			0.00	29.28	30.25	0.4	05	1.2	10	05	8	06	02		
03	79	54	67	3	58	60	0	2	FG+ BR			0.00	29.28	30.24	0.2	19	1.3	12	23	9	22	03		
04	83*	58	71	8	61	63	0	6	FG+ FG BR HZ			0.00	29.24	30.18	0.4	14	1.3	10	18	8	19	04		
05	82	59	71*	8	62	65	0	6	RA BR HZ			0.39	29.15	30.08	0.4	10	1.4	28	27	16	25	05		
06	68	52	60	-2	48	54	5	0				0.00	29.23	30.20	3.5	02	5.8	20	36	14	36	06		
07	70	47	59	-3	47	52	6	0				0.00	29.26	30.23	3.1	05	4.9	18	07	14	07	07		
08	75	49	62	1	52	56	3	0				0.00	29.23	30.19	1.2	07	2.2	14	06	10	07	08		
09	80	54	67	6	56	60	0	2				0.00	29.18	30.13	1.4	06	2.1	12	08	9	06	09		
10	79	54	67	6	57	60	0	2	BR			0.00	29.06	29.99	0.1	12	0.4	8	16	7	16	10		
11	78	60	69	9	60	62	0	4	RA BR			0.18	28.79	29.72	2.5	21	3.5	39*	22	23*	22	11		
12	61	36	49	-11	37	45	16	0				0.00	28.90	29.88	3.9	26	5.6	22	27	15	26	12		
13	58	31	45	-14	28	37	20	0	FG+ BR			0.00	29.02	30.03	1.0	23	2.3	17	28	13	26	13		
14	63	33	48	-11	27	38	17	0				0.00	29.10	30.10	1.2	26	2.1	17	27	12	27	14		
15	64	31	48	-11	33	40	17	0	FG+ FZFG BR			0.00	29.18	30.18	0.6	06	0.9	9	10	7	09	15		
16	55	47	51	-7	46	48	14	0	RA BR			0.55	29.13	30.09	1.0	06	1.2	8	04	7	04	16		
17	66	51	59	1	58	59	6	0	RA BR			0.65	28.86	29.82	0.1	27	0.1	8	26	6	20	17		
18	75	58	67	9	61	63	0	2	FG+ FG BR			0.00	28.95	29.90	0.5	21	0.5	8	22	6	21	18		
19	65	58	62	5	60	61	3	0	RA FG+ FG BR			0.88	28.87	29.80	0.3	25	0.7	8	20	6	21	19		
20	62	40	51	-6	42	46	14	0	RA BR			0.03	28.90	29.91	0.8	27	3.2	17	26	13	25	20		
21	65	36	51	-5	40	44	14	0	BR			0.00	29.05	30.03	0.7	06	1.6	14	06	10	06	21		
22	65	45	55	-1	42	48	10	0	RA			0.01	29.01	30.00	3.2	27	5.6	25	28	16	29	22		
23	46	36	41	-15	27	35	24	0	BR			0.00	29.15	30.15	0.8	29	2.9	21	31	13	29	23		
24	50	30	40*	-15	27	34	25	0				0.00	29.20	30.22	0.2	33	2.1	20	32	13	32	24		
25	57	30*	44	-11	30	37	21	0	BR			0.00	29.26	30.27	0.3	08	1.2	9	08	7	06	25		
26	63	45	54	-1	40	47	11	0	RA			T	29.19	30.16	0.2	27	1.0	10	22	8	27	26		
27	56	50	53	-1	50	51	12	0	RA BR			2.18	28.84	29.75	0.8	08	1.5	18	28	15	29	27		
28	59	39	49	-5	37	45	16	0	RA			T	28.80	29.83	4.5	26	6.2	21	27	16	26	28		
29	70	36	53	0	38	45	12	0				0.00	29.07	30.07	1.7	22	3.5	17	22	10	19	29		
30	73	42	58	5	44	50	7	0				0.00	29.15	30.12	0.7	22	1.8	15	21	12	19	30		
31	72	49	61	8	47	54	4	0	RA			0.05	29.10	30.07	2.3	21	4.0	17	20	14	19	31		
67.6		45.6	56.6	☼	45.9	50.8	9.0	0.8	< MONTHLY AVERAGES TOTALS >				4.93	29.08	30.05	0.3	26	2.3	< MONTHLY AVERAGES					
-3.5		-0.1	-1.8		-----DEPARTURE FROM NORMAL -----								1.91	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 2.18 DATE : 27				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.35 25 0921								
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH :				MINIMUM :				29.53 27 2053								
HEATING :		278 48		314 54		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 4		PRECIPITATION >= 0.01 INCH: 10												
COOLING :		26 3		1519 219		THUNDERSTORMS : 0		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH: 6												
								: 0		HEAVY FOG : 7		SNOWFALL >= 1.0 INCH :												

OCTOBER 2006
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 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	0.01	T	T										01												01	0.01	0.01	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05					0.20	0.02	0.16	0.01				05	0.39	0.39	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11					0.01	0.01	T	T	0.08	0.01			11			T	0.05				0.02				11	0.18	0.18	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16					T	0.01				T		T	16	0.01	0.02	0.03	0.01	0.07	0.09	0.05	0.06	0.05	0.04	0.04	0.07	16	0.55	0.55
17	0.06	0.04	0.03	0.06	0.05	0.14	0.03	0.04	0.07	0.05	0.03	0.01	17							0.01	T	0.02	0.01		17	0.65	0.65	
18													18												18	0.00	0.00	
19					T		T			T		T	19	0.02	0.03	0.08	T	0.02	0.08	0.42	0.14	0.09	T		19	0.88	0.88	
20	0.02	T	0.01										20												20	0.03	0.03	
21													21												21	0.00	0.00	
22	T	0.01	T										22												22	0.01	0.01	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26				T	T	T	T		T	T	T	26	T	T	
27	T	0.01	0.02	T	0.02	0.03	0.07	0.01	0.07	0.13	0.08	0.13	27	0.24	0.23	0.19	0.19	0.13	0.04	0.40	0.19			27	2.18	2.18		
28	T												28												28	T	T	
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31						T	0.05	T	T			31	0.05	0.05	

* 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)	0.16	0.30	0.36	0.38	0.39	0.54	0.55	0.58	0.59	0.60	0.65	0.70
Ending Date	27	27	27	27	27	27	27	27	27	27	19	27
Ending Time (Hr/Min)	1855	1855	1857	1902	1906	1928	1929	1929	1929	1929	2023	1929

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 OCTOBER 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							2.50	10.00	
02							0.25	10.00	
03							0.00	10.00	
04							0.00	10.00	
05							2.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							6.00	10.00	
11							3.00	10.00	
12							10.00	10.00	
13							0.25	10.00	
14							10.00	10.00	
15							1.00	10.00	
16							3.00	10.00	
17							2.50	10.00	
18							0.25	10.00	
19							0.25	9.00	
20							9.00	10.00	
21							5.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							7.00	10.00	
26							10.00	10.00	
27							0.75	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							9.00	10.00	
MONTHLY AVGS							5.86	9.97	
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		
6			13				16		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)											
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						
SUNRISE: 0631						OCT 01						SUNSET: 1820						SUNRISE: 0636						OCT 07						SUNSET: 1811					
01	BKN	090			10.00		62	56	59	81	0	00	29.05	29.99	01	CLR	NC			10.00		51	45	48	80	5	05	29.29	30.26						
04	FEW	085			10.00		61	56	58	84	0	00	29.09	30.03	04	CLR	NC			10.00		50	45	48	83	6	VR	29.27	30.24						
07	CLR	NC			2.50	BR	57	54	55	90	0	00	29.14	30.10	07	CLR	NC			10.00		48	44	46	86	0	00	29.28	30.26						
10	CLR	NC			10.00		66	59	62	78	0	00	29.19	30.15	10	CLR	NC			10.00		59	46	52	62	9	06	29.30	30.27						
13	CLR	NC			10.00		76	55	63	48	3	VR	29.18	30.13	13	CLR	NC			10.00		67	46	56	47	7	VR	29.25	30.22						
16	FEW	055			10.00		78	52	63	40	0	00	29.16	30.11	16	CLR	NC			10.00		68	48	57	49	7	01	29.20	30.17						
19	CLR	NC			10.00		67	55	60	66	0	00	29.20	30.16	19	BKN	048			10.00		62	49	55	63	0	00	29.23	30.21						
22	CLR	NC			10.00		58	53	55	84	0	00	29.24	30.21	22	CLR	NC			10.00		55	49	52	80	0	00	29.25	30.22						
SUNRISE: 0632						OCT 02						SUNSET: 1818						SUNRISE: 0637						OCT 08						SUNSET: 1810					
01	CLR	NC			10.00		54	51	52	90	0	00	29.25	30.21	01	CLR	NC			10.00		51	48	49	90	0	00	29.23	30.20						
04	FEW	002			9.00		52	50	51	93	0	00	29.25	30.21	04	CLR	NC			10.00		50	47	48	90	0	00	29.23	30.20						
07	VV	001			0.25	FG	52	51	51	96	0	00	29.32	30.29	07	CLR	NC			10.00		49	46	48	89	0	00	29.25	30.22						
10	CLR	NC			10.00		64	55	59	73	3	VR	29.34	30.30	10	CLR	NC			10.00		63	52	57	68	8	06	29.28	30.25						
13	CLR	NC			10.00		74	55	63	52	0	00	29.30	30.26	13	OVC	032			10.00		71	55	62	57	5	VR	29.25	30.22						
16	CLR	NC			10.00		76	55	63	48	3	VR	29.27	30.23	16	CLR	NC			10.00		74	56	63	54	6	VR	29.18	30.15						
19	CLR	NC			10.00		67	59	62	76	0	00	29.26	30.23	19	CLR	NC			10.00		66	57	61	73	0	00	29.18	30.16						
22	CLR	NC			9.00		60	57	58	90	0	00	29.29	30.26	22	CLR	NC			10.00		59	56	57	90	0	00	29.20	30.16						
SUNRISE: 0633						OCT 03						SUNSET: 1817						SUNRISE: 0638						OCT 09						SUNSET: 1808					
01	SCT	002			9.00		57	54	55	90	0	00	29.26	30.22	01	CLR	NC			10.00		57	55	56	93	5	05	29.20	30.16						
04	VV	001			0.25	FG	55	54	54	96	0	00	29.28	30.23	04	CLR	NC			10.00		56	54	55	93	0	00	29.19	30.15						
07	VV	001			0.00	FG	54	53	53	96	0	00	29.33	30.29	07	CLR	NC			10.00		55	53	54	93	0	00	29.22	30.19						
10	OVC	003			4.00	BR	58	56	57	93	0	00	29.35	30.32	10	CLR	NC			10.00		68	57	61	68	5	VR	29.23	30.19						
13	CLR	NC			10.00		76	62	67	62	5	VR	29.29	30.24	13	CLR	NC			10.00		76	57	64	52	8	05	29.17	30.12						
16	CLR	NC			10.00		79	61	68	54	3	22	29.25	30.20	16	CLR	NC			10.00		79	55	64	44	6	04	29.13	30.07						
19	CLR	NC			7.00		70	64	66	81	0	00	29.25	30.21	19	FEW	060			10.00		69	59	63	71	0	00	29.12	30.08						
22	CLR	NC			5.00	BR	63	59	61	87	0	00	29.27	30.24	22	CLR	NC			10.00		62	58	60	87	0	00	29.13	30.09						
SUNRISE: 0634						OCT 04						SUNSET: 1815						SUNRISE: 0639						OCT 10						SUNSET: 1807					
01	VV	001			0.25	FG	61	60	60	97	0	00	29.26	30.21	01	CLR	NC			10.00		59	56	57	90	0	00	29.13	30.08						
04	VV	001			0.25	FG	59	58	58	97	0	00	29.24	30.19	04	CLR	NC			10.00		57	54	55	90	0	00	29.10	30.06						
07	VV	001			0.00	FG	58	57	57	97	0	00	29.29	30.24	07	CLR	NC			10.00		55	52	53	90	0	00	29.13	30.08						
10	OVC	003			4.00	BR	61	59	60	93	0	00	29.28	30.24	10	CLR	NC			10.00		68	59	63	73	0	00	29.13	30.08						
13	CLR	NC			10.00		79	63	69	58	6	VR	29.25	30.19	13	CLR	NC			10.00		75	58	65	56	0	00	29.05	29.99						
16	BKN	050			10.00		81	63	69	54	5	13	29.18	30.13	16	CLR	NC			10.00		77	58	65	52	0	00	28.99	29.93						
19	CLR	NC			10.00		75	63	67	66	0	00	29.18	30.13	19	CLR	NC			10.00		68	61	64	78	0	00	28.97	29.92						
22	CLR	NC			5.00	BR	65	62	63	90	0	00	29.19	30.15	22	CLR	NC			10.00		63	59	61	87	0	00	28.95	29.90						
SUNRISE: 0635						OCT 05						SUNSET: 1814						SUNRISE: 0640						OCT 11						SUNSET: 1806					
01	SCT	060			4.00	BR	64	61	62	90	0	00	29.18	30.12	01	CLR	NC			10.00		62	59	60	90	0	00	28.90	29.84						
04	FEW	001			2.00	BR	61	59	60	93	0	00	29.17	30.11	04	BKN	095			10.00		61	59	60	93	0	00	28.87	29.81						
07	CLR	NC			3.00	BR	60	57	58	90	0	00	29.18	30.13	07	OVC	090			7.00		63	61	62	93	0	00	28.86	29.80						
10	FEW	070			7.00		71	60	64	68	3	VR	29.19	30.14	10	OVC	065			4.00	-RA BR	64	61	62	90	0	00	28.83	29.78						
13	CLR	NC			10.00		80	63	69	56	0	00	29.14	30.08	13	BKN	044			10.00		74	60	65	62	9	20	28.74	29.67						
16	FEW	110			8.00		81	65	70	58	0	00	29.07	30.01	16	SCT	060			10.00		73	57	63	57	11	21	28.69	29.62						
19	OVC	100			7.00	-RA	68	65	66	90	5	06	29.10	30.06	19	CLR	NC			10.00		66	61	63	84	0	00	28.70	29.64						
22	OVC	047			10.00		67	65	66	93	0	00	29.13	30.08	22	OVC	060			10.00		64	59	61	84	5	VR	28.74	29.68						
SUNRISE: 0635						OCT 06						SUNSET: 1813						SUNRISE: 0640						OCT 12						SUNSET: 1804					
01	OVC	017			10.00		64	60	62	87	6	35	29.14	30.08	01	BKN	050			10.00		60	51	55	72	8	24	28.78	29.72						
04	OVC	015			10.00		61	57	59	87	3	VR	29.16	30.10	04	CLR	NC			10.00		55	48	51	77	3	22	28.81	29.76						
07	OVC	018			10.00		58	52	55	81	5	VR	29.22	30.18	07	CLR	NC			10.00		52	47	49	83	0	00	28.87	29.83						
10	FEW	029			10.00		59	47	53	65	6	VR	29.27	30.23	10	FEW	042			10.00		56	41	49	57	10	27	28.94	29.90						
13	CLR	NC			10.00		66	43	54	43	9	01	29.25	30.21	13	BKN	110			10.00		54	32	44	43	9	23	28.99	29.96						
16	CLR	NC			10.00		65	44	54	47	13	01	29.25	30.21	16	OVC	095			10.00		52	28	42	40	6	VR	28.95	29.92						
19	SCT	040			10.00		57	44	50	62	6	VR	29.30	30.28	19	SCT	120			10.00		48	29	40	48	6	29	28.95	29.92						
22	BKN	036			10.00		53	45	49	74	3	VR	29.31	30.29	22	CLR	NC			10.00		42	27	36	55	0	00	28.98	29.96						

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
OCTOBER 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)											
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						
SUNRISE: 0641						OCT 13						SUNSET: 1803						SUNRISE: 0647						OCT 19						SUNSET: 1755					
01	CLR	NC			10.00		35	32	34	89	0	00	29.00	29.98	01	VV	001			0.25	FG	59	58	58	97	0	00	28.95	29.89						
04	CLR	NC			10.00		33	29	31	85	0	00	29.02	30.01	04	VV	001			0.25	FG	60	58	59	93	0	00	28.94	29.88						
07	CLR	NC			10.00		31	29	30	92	0	00	29.06	30.06	07	OVC	010			4.00	BR	60	58	59	93	0	00	28.92	29.87						
10	CLR	NC			10.00		45	31	39	58	0	00	29.09	30.08	10	OVC	003			4.00	BR	61	59	60	93	0	00	28.92	29.88						
13	CLR	NC			10.00		54	27	42	35	11	22	29.04	30.03	13	OVC	065			6.00	-RA BR	65	61	63	87	0	00	28.87	29.82						
16	CLR	NC			10.00		58	13	41	17	7	VR	29.00	29.98	16	OVC	042			8.00		65	62	63	90	0	00	28.80	29.75						
19	CLR	NC			10.00		47	27	39	46	0	00	29.01	30.01	19	OVC	015			2.50	+RA BR	62	60	61	93	0	00	28.77	29.72						
22	CLR	NC			10.00		39	31	36	73	0	00	29.05	30.05	22	OVC	075			6.00	BR	62	60	61	93	0	00	28.74	29.69						
SUNRISE: 0642						OCT 14						SUNSET: 1802						SUNRISE: 0648						OCT 20						SUNSET: 1754					
01	CLR	NC			10.00		34	30	32	85	0	00	29.07	30.06	01	OVC	025			10.00		56	53	54	90	3	25	28.74	29.69						
04	FEW	075			10.00		35	30	33	82	0	00	29.08	30.06	04	OVC	023			10.00		51	48	49	90	5	VR	28.81	29.77						
07	CLR	NC			10.00		33	30	32	89	0	00	29.12	30.12	07	OVC	021			10.00		49	44	47	83	3	VR	28.91	29.87						
10	CLR	NC			10.00		49	31	41	50	6	21	29.14	30.14	10	BKN	030			10.00		51	42	47	71	7	27	28.97	29.94						
13	CLR	NC			10.00		61	22	44	22	8	25	29.10	30.09	13	OVC	035			10.00		54	41	48	62	5	VR	28.98	29.95						
16	CLR	NC			10.00		63	14	44	15	5	VR	29.08	30.06	16	OVC	031			10.00		53	39	46	59	0	00	28.98	29.95						
19	CLR	NC			10.00		50	27	40	41	0	00	29.10	30.10	19	OVC	029			10.00		47	38	43	71	3	VR	29.01	29.99						
22	CLR	NC			10.00		40	32	37	73	0	00	29.14	30.14	22	SCT	028			10.00		42	37	40	83	0	00	29.04	30.03						
SUNRISE: 0643						OCT 15						SUNSET: 1800						SUNRISE: 0649						OCT 21						SUNSET: 1753					
01	CLR	NC			10.00		36	31	34	82	0	00	29.16	30.15	01	CLR	NC			10.00		39	36	38	89	0	00	29.04	30.03						
04	CLR	NC			10.00		33	30	32	89	0	00	29.17	30.16	04	CLR	NC			5.00	BR	36	34	35	92	0	00	29.06	30.05						
07	SCT	002			10.00		31	28	30	89	0	00	29.21	30.22	07	CLR	NC			5.00	BR	36	34	35	92	0	00	29.10	30.09						
10	CLR	NC			10.00		42	38	40	86	0	00	29.24	30.25	10	BKN	009			10.00		47	41	44	80	6	VR	29.13	30.12						
13	CLR	NC			10.00		59	28	45	31	0	00	29.20	30.19	13	CLR	NC			10.00		59	42	50	54	3	VR	29.06	30.04						
16	CLR	NC			10.00		62	29	47	29	5	06	29.15	30.14	16	CLR	NC			10.00		65	40	52	40	0	00	29.01	29.98						
19	CLR	NC			10.00		53	36	45	53	0	00	29.16	30.17	19	CLR	NC			10.00		53	46	49	77	0	00	29.01	29.99						
22	CLR	NC			10.00		49	40	45	71	0	00	29.19	30.19	22	CLR	NC			10.00		48	44	46	86	0	00	29.01	29.99						
SUNRISE: 0644						OCT 16						SUNSET: 1759						SUNRISE: 0649						OCT 22						SUNSET: 1752					
01	CLR	NC			10.00		47	41	44	80	3	VR	29.17	30.15	01	OVC	080			10.00	-RA	51	46	48	83	0	00	28.99	29.96						
04	FEW	095			10.00		48	43	46	83	0	00	29.15	30.13	04	OVC	080			10.00		53	48	50	83	5	VR	28.99	29.94						
07	CLR	NC			10.00		49	44	47	83	5	06	29.14	30.13	07	OVC	080			10.00		53	48	50	83	0	00	29.01	29.98						
10	BKN	110			10.00		52	45	48	77	0	00	29.18	30.16	10	BKN	028			10.00		60	51	55	72	7	VR	29.02	29.99						
13	SCT	090			10.00	-RA	54	45	49	72	0	00	29.13	30.10	13	OVC	055			10.00		62	43	52	50	10	28	28.99	29.95						
16	OVC	060			10.00	-RA	52	48	50	86	5	07	29.09	30.06	16	FEW	055			10.00		59	41	50	51	11	27	29.02	29.98						
19	OVC	060			5.00	-RA BR	50	48	49	93	0	00	29.07	30.05	19	SCT	038			10.00		50	37	44	61	8	27	29.08	30.05						
22	OVC	050			4.00	-RA BR	51	49	50	93	0	00	29.03	30.01	22	OVC	044			10.00		45	30	39	56	0	00	29.14	30.12						
SUNRISE: 0645						OCT 17						SUNSET: 1758						SUNRISE: 0650						OCT 23						SUNSET: 1750					
01	OVC	060			3.00	-RA BR	52	50	51	93	0	00	28.94	29.91	01	OVC	043			10.00		45	27	38	49	7	VR	29.13	30.11						
04	OVC	060			3.00	-RA BR	52	51	51	96	0	00	28.84	29.81	04	OVC	055			10.00		39	23	33	53	0	00	29.13	30.12						
07	OVC	010			4.00	-RA BR	56	54	55	93	0	00	28.84	29.81	07	OVC	050			10.00		39	27	34	62	3	13	29.15	30.15						
10	OVC	015			3.00	-RA BR	60	58	59	93	0	00	28.86	29.83	10	OVC	050			10.00		42	27	36	55	5	VR	29.18	30.18						
13	OVC	030			10.00		64	61	62	90	0	00	28.82	29.78	13	BKN	060			10.00		44	23	36	44	10	29	29.16	30.16						
16	OVC	022			10.00		66	61	63	84	0	00	28.82	29.78	16	OVC	060			10.00		45	25	37	46	6	VR	29.13	30.14						
19	OVC	009			2.50	BR	64	62	63	93	0	00	28.86	29.82	19	OVC	090			10.00		41	30	36	65	0	00	29.15	30.16						
22	OVC	008			2.50	BR	64	62	63	93	0	00	28.91	29.86	22	OVC	075			10.00		38	32	36	79	0	00	29.14	30.15						
SUNRISE: 0646						OCT 18						SUNSET: 1757						SUNRISE: 0651						OCT 24						SUNSET: 1749					
01	OVC	007			6.00	BR	63	62	62	97	0	00	28.92	29.87	01	OVC	070			10.00		36	32	34	85	0	00	29.13	30.14						
04	OVC	003			0.75	BR	63	62	62	97	0	00	28.93	29.88	04	FEW	050			10.00		32	29	31	89	0	00	29.14	30.14						
07	VV	002			0.50	FG	63	62	62	97	0	00	28.96	29.91	07	CLR	NC			10.00		31	27	30	85	3	23	29.18	30.20						
10	OVC	010			10.00		66	62	64	87	0	00	29.01	29.96	10	FEW	050			10.00		41	25	35	53	3	VR	29.23	30.24						
13	OVC	016			10.00		70	62	65	76	0	00	28.99	29.93	13	BKN	050			10.00		47	24	38	41	0	00	29.23	30.23						
16	CLR	NC			10.00		75	61	66	62	6	21	28.94	29.88	16	CLR	NC			10.00		50	22	39	33	6	VR	29.21	30.22						
19	CLR	NC			7.00		66	62	64	87	0	00	28.94	29.89	19	CLR	NC			10.00		40	27	35	60	0	00	29.24	30.26						
22	CLR	NC			5.00	BR	61	58	59	90	0	00	28.96	29.91	22	CLR	NC			10.00		34	29	32	82	0	00	29.27	30.28						

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0652						OCT 25						SUNSET: 1748					
01	CLR	NC			10.00			30	27	29	89	0	00	29.27	30.28		
04	FEW	002			7.00			30	28	29	92	0	00	29.26	30.27		
07	CLR	NC			9.00			32	29	31	89	0	00	29.30	30.32		
10	CLR	NC			10.00			43	34	39	71	6	VR	29.31	30.32		
13	CLR	NC			10.00			52	26	41	37	5	11	29.26	30.27		
16	CLR	NC			10.00			56	27	43	33	5	VR	29.21	30.21		
19	CLR	NC			10.00			48	33	41	56	0	00	29.22	30.23		
22	CLR	NC			10.00			45	35	41	68	0	00	29.24	30.24		
SUNRISE: 0653						OCT 26						SUNSET: 1747					
01	OVC	100			10.00			46	39	43	77	0	00	29.25	30.24		
04	OVC	100			10.00			46	39	43	77	0	00	29.22	30.21		
07	OVC	080			10.00			46	40	43	80	3	07	29.22	30.22		
10	OVC	110			10.00			53	36	45	53	3	VR	29.23	30.22		
13	OVC	060			10.00			59	35	48	41	0	00	29.18	30.16		
16	BKN	100			10.00			62	37	50	40	5	27	29.13	30.10		
19	OVC	060			10.00			58	43	50	58	0	00	29.12	30.10		
22	OVC	070			10.00	-RA		56	44	50	64	0	00	29.10	30.08		
SUNRISE: 0654						OCT 27						SUNSET: 1746					
01	OVC	039			10.00			54	45	49	72	0	00	29.07	30.03		
04	OVC	035			8.00			51	48	49	90	0	00	29.00	29.96		
07	OVC	044			3.00	-RA BR		50	49	49	96	0	00	28.97	29.94		
10	OVC	025			2.50	RA BR		51	49	50	93	0	00	28.91	29.88		
13	OVC	008			2.50	RA BR		51	49	50	93	6	06	28.74	29.70		
16	OVC	047			2.00	+RA BR		53	51	52	93	0	00	28.65	29.60		
19	OVC	013			0.75	+RA BR		54	53	53	96	6	VR	28.58	29.54		
22	OVC	009			7.00			56	54	55	93	0	00	28.59	29.54		
SUNRISE: 0655						OCT 28						SUNSET: 1745					
01	OVC	055			10.00			55	50	52	83	3	VR	28.59	29.55		
04	OVC	048			10.00			51	44	48	77	8	25	28.68	29.65		
07	OVC	033			10.00			48	43	46	83	9	28	28.78	29.76		
10	FEW	036			10.00			52	39	46	61	8	27	28.88	29.85		
13	FEW	042			10.00			57	37	47	47	10	25	28.88	29.85		
16	CLR	NC			10.00			59	25	44	27	7	VR	28.91	29.87		
19	CLR	NC			10.00			50	28	41	43	0	00	28.98	29.96		
22	CLR	NC			10.00			42	34	39	73	3	19	29.02	30.01		
SUNRISE: 0656						OCT 29						SUNSET: 1744					
01	CLR	NC			10.00			42	32	38	68	5	23	29.04	30.01		
04	CLR	NC			10.00			40	32	37	73	3	28	29.05	30.03		
07	CLR	NC			10.00			37	32	35	82	3	24	29.08	30.07		
10	CLR	NC			10.00			51	36	44	57	7	VR	29.13	30.11		
13	CLR	NC			10.00			65	39	52	39	6	VR	29.08	30.05		
16	CLR	NC			10.00			70	41	55	35	7	21	29.06	30.03		
19	CLR	NC			10.00			58	45	51	62	0	00	29.09	30.08		
22	CLR	NC			10.00			50	45	48	83	0	00	29.13	30.12		
SUNRISE: 0657						OCT 30						SUNSET: 1743					
01	CLR	NC			10.00			48	44	46	86	0	00	29.15	30.12		
04	CLR	NC			10.00			45	41	43	86	0	00	29.16	30.13		
07	CLR	NC			10.00			42	39	41	89	0	00	29.20	30.18		
10	CLR	NC			10.00			58	45	51	62	5	26	29.22	30.21		
13	CLR	NC			10.00			69	45	56	42	5	19	29.16	30.12		
16	CLR	NC			10.00			71	41	55	34	7	20	29.10	30.08		
19	CLR	NC			10.00			59	45	52	60	0	00	29.10	30.08		
22	CLR	NC			10.00			52	46	49	80	0	00	29.13	30.09		

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd Amt Oktas		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
SUNRISE: 0658						OCT 31						SUNSET: 1741					
01	CLR	NC			10.00			50	45	48	83	0	00	29.10	30.07		
04	CLR	NC			10.00			53	43	48	69	6	22	29.13	30.10		
07	CLR	NC			10.00			52	42	47	69	3	26	29.14	30.11		
10	SCT	050			10.00			61	43	52	52	3	VR	29.15	30.13		
13	FEW	049			10.00			70	45	56	41	7	VR	29.10	30.05		
16	OVC	060			10.00			71	46	57	41	7	21	29.05	30.00		
19	OVC	060			10.00			67	51	58	57	6	VR	29.10	30.05		
22	OVC	110			10.00			60	55	57	84	6	28	29.10	30.07		

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.

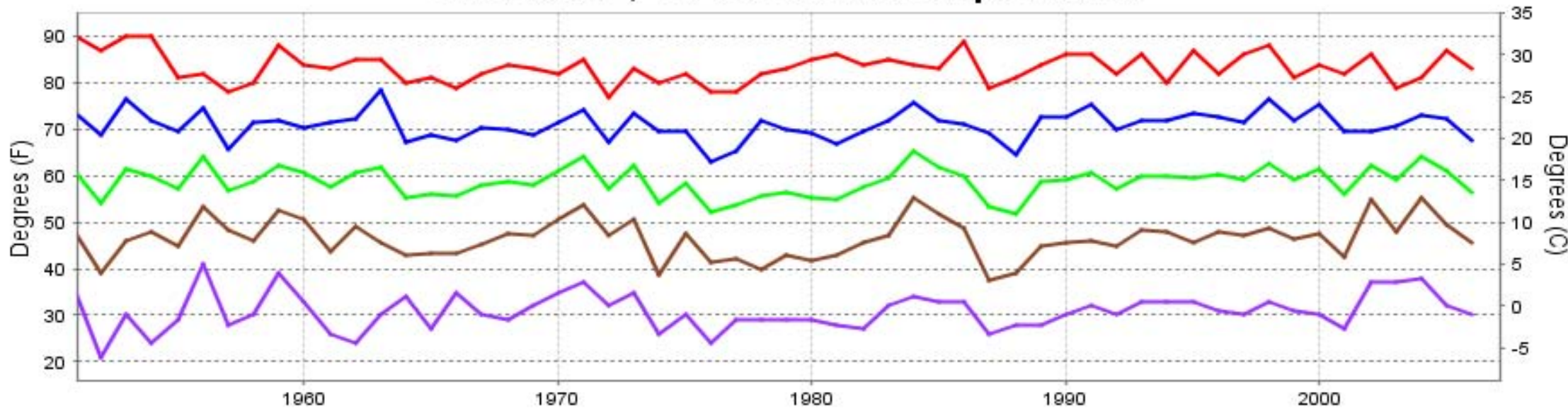
& = Original observation contained additional weather elements.

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			51	46	49	85	29.08	30.04	8.79	1	1	27
02			50	46	48	85	29.08	30.04	8.35	1	2	27
03			50	46	48	86	29.08	30.04	8.35	1	xxx	xx
04			49	45	47	86	29.08	30.04	7.92	1	3	27
05			49	45	47	88	29.09	30.06	7.35	1	xxx	xx
06			48	45	47	88	29.10	30.07	7.50	1	1	27
07			48	45	47	88	29.11	30.08	7.36	1	1	27
08			50	46	48	86	29.12	30.10	7.16	2	2	27
09			53	47	50	80	29.13	30.11	8.15	3	0	09
10			56	47	51	71	29.13	30.11	8.66	4	2	27
11			60	47	53	63	29.12	30.10	9.27	4	0	09
12			62	46	54	57	29.11	30.08	9.61	5	1	27
13			64	45	54	53	29.09	30.06	9.63	5	3	27
14			65	45	55	51	29.07	30.04	9.47	5	2	27
15			66	45	55	50	29.06	30.02	9.50	5	2	27
16			66	44	55	49	29.05	30.02	9.61	5	1	27
17			64	44	54	52	29.05	30.02	9.31	4	1	27
18			62	45	54	57	29.06	30.02	9.48	2	0	09
19			58	47	53	69	29.07	30.04	8.77	1	xx	xx
20			56	48	52	75	29.07	30.05	8.97	1	1	27
21			54	48	51	80	29.08	30.05	8.82	1	1	27
22			53	47	50	81	29.08	30.06	8.82	1	xxx	xx
23			52	47	50	85	29.09	30.05	8.58	1	xx	xx
24			51	47	49	86	29.08	30.05	8.56	1	xxx	xx

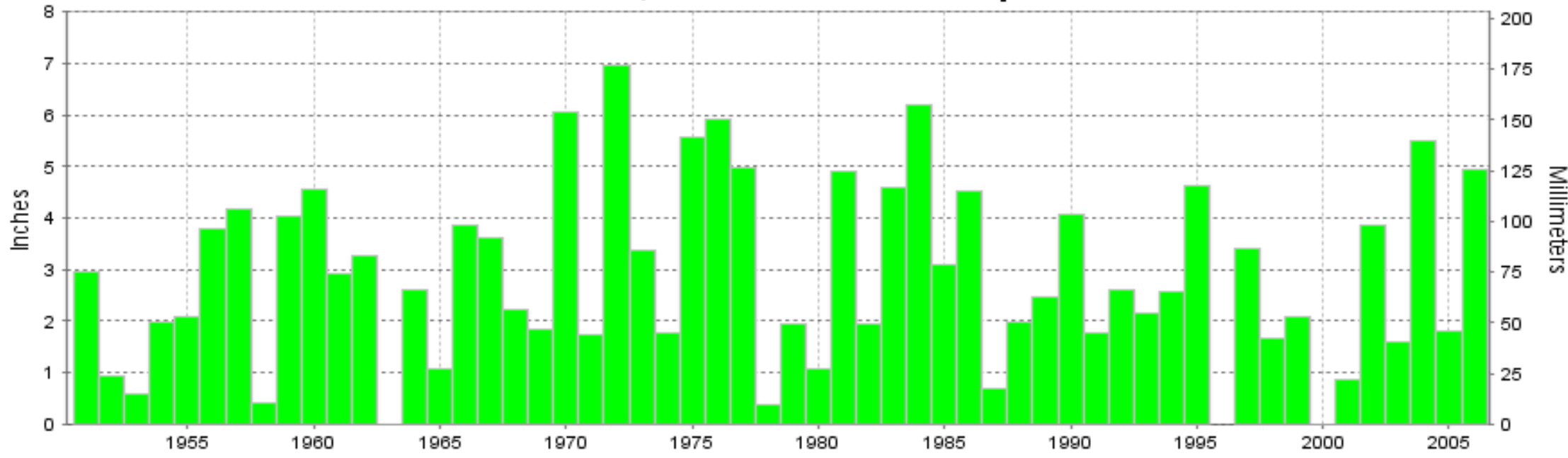
OAK RIDGE, TN OCTOBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2006) Mean: 58.8
1971-2000 Normal: 58.4

OAK RIDGE, TN OCTOBER Precipitation



Long-Term (1951-2006) Mean Monthly Total: 2.92

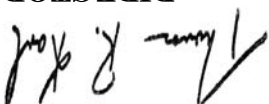
1971-2000 Normal: 3.02



OCTOBER 2006
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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