AUGUST 2010
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36 ° 1 'N Long: 84 ° 14'W Elev (Ground) 913 Feet
Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X

Date	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		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		LST DEPTH	LST WATER-EQUIV	LST SNOW-FALL	LST WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 3-SEC SPEED	MAXIMUM 3-SEC DIR	MAXIMUM 2-MIN SPEED	MAXIMUM 2-MIN 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	92	74	83	5	74	76	0	18	BR				0.00	28.92	29.86	0.8	05	1.4	14	02	9	01	01
02	91	76	84	6	74	77	0	19	BR				0.00	29.05	29.98	1.4	23	2.3	16	28	9	21	02
03	91	78	85	8	75	78	0	20	BR HZ				0.00	29.11	30.02	1.5	21	2.3	15	21	8	18	03
04	94	76	85	8	77	79	0	20	BR HZ				0.00	29.03	29.95	1.7	23	2.2	15	25	9	20	04
05	91	74	83	6	75	77	0	18	RA BR				0.25	28.95	29.87	1.1	26	2.1	22	16	16	16	05
06	87	71	79	2	72	73	0	14	RA FG+ FG BR				0.01	28.96	29.89	0.2	15	0.2	9	17	6	17	06
07	89	67	78	1	67	70	0	13	BR				0.00	28.99	29.92	1.0	06	1.6	12	07	8	06	07
08	93	68	81	4	69	72	0	16	BR HZ				0.00	29.02	29.95	0.3	14	1.2	12	19	8	18	08
09	95	71	83	6	72	75	0	18	BR				0.00	29.05	29.97	0.4	26	1.0	13	29	8	28	09
10	96	76	86	9	74	77	0	21	BR HZ				0.00	29.05	29.96	0.5	27	1.8	14	26	9	28	10
11	97	77	87*	10	74	77	0	22	RA HZ				T	29.01	29.91	1.1	23	2.7	15	28	10	28	11
12	91	75	83	6	74	76	0	18	RA BR				0.81	28.95	29.84	0.8	21	1.5	15	34	10	33	12
13	97*	73	85	8	74	76	0	20	FG+ FG BR				0.00	28.90	29.82	0.3	06	1.6	12	01	7	36	13
14	94	77	86	9	74	77	0	21	RA BR				T	28.98	29.91	1.2	21	1.5	22	17	16	17	14
15	93	75	84	7	75	77	0	19					0.00	29.02	29.93	0.5	25	1.3	12	26	8	26	15
16	90	75	83	7	74	76	0	18	RA BR				0.41	29.03	29.96	0.1	19	0.7	15	26	9	25	16
17	87	73	80	4	73	75	0	15	RA BR				T	29.08	30.01	0.6	16	1.4	14	22	10	20	17
18	88	72	80	4	73	73	0	15	RA FG+ FG BR				0.46	29.07	29.99			0.4	16	32	12	31	18
19	87	71	79	3	72	74	0	14	RA BR				0.33	28.98	29.91	0.8	07	1.7	12	06	8	08	19
20	91	68	80	4	70	72	0	15					0.00	29.00		1.2	09	1.5	10	09	7	17	20
21	85	74	80	4	73	75	0	15	RA BR				0.14	28.98	29.91	1.0	18	1.5	16	36	10	18	21
22	90	71	81	5	71	74	0	16	BR				0.00	28.99	29.92	1.3	03	2.1	16	06	12	06	22
23	88	68	78	3	65	69	0	13	FG+ FG BR				0.00	28.98	29.91	1.2	05	2.6	15	01	10	06	23
24	86	64	75	0	63	67	0	10	BR				0.00	28.95	29.89	0.8	07	2.2	14	36	9	36	24
25	86	63	75*	0	63	67	0	10	BR				0.00	29.03	29.97	0.6	08	1.4	13	35	9	07	25
26	89	63*	76	1	63	67	0	11	BR				0.00	29.10	30.04	0.4	01	1.9	15	01	9	36	26
27	89	64	77	2	63	68	0	12					0.00	29.11	30.05	1.2	06	1.9	14	07	9	07	27
28	92	67	80	5	68	71	0	15	RA BR				0.39	29.17	30.11	0.5	08	1.8	35*	16	21*	16	28
29	89	67	78	3	68	71	0	13	FG+ FG BR				0.00	29.25	30.19	0.4	06	0.8	9	06	7	06	29
30	89	69	79	5	67	71	0	14	BR				0.00	29.30	30.23	0.2	23	0.6	10	29	6	18	30
31	91	64	78	4	64	68	0	13	FG+ BR				0.00	29.25	30.18	0.4	31	1.0	10	02	6	20	31
	90.6	71.0	80.8	¤	70.6	73.4	0.0	16.0	< MONTHLY AVERAGES | TOTALS >				2.80	29.04	29.97	0.1	16	1.6	< MONTHLY AVERAGES				
	3.4	5.8	4.6		<---------- DEPARTURE FROM NORMAL ---------->								-0.59	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

AUGUST 2010
OAK RIDGE, TN

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	0	0	0	0
COOLING :	496	149	1670	573

GREATEST 24-HR PRECIPITATION : 0.81 DATE : 12
GREATEST 24-HR SNOWFALL : DATE :
GREATEST SNOW DEPTH : DATE :

SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM :	30.30	30	1015
MIMIMUM :	29.77	13	1753

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 :	18	MINIMUM TEMP <= 32 :	0
MAXIMUM TEMP <= 32 :	0	MINIMUM TEMP <= 0 :	0
THUNDERSTORMS :	0	HEAVY FOG :	6

PRECIPITATION >= 0.01 INCH:	8
PRECIPITATION >= 0.10 INCH:	7
SNOWFALL >= 1.0 INCH :	

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
AUGUST 2010 **WBAN # 53868**

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01													01													01	0.00	0.00
02													02													02	0.00	0.00
03													03													03	0.00	0.00
04													04													04	0.00	0.00
05													05	T	0.22		T	0.03								05	0.25	0.25
06												T	06	0.01	T											06	0.01	0.01
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													11												T	11	T	T
12	0.60	0.10	T										12	0.09	0.02											12	0.81	0.81
13													13													13	0.00	0.00
14													14				T	T	T							14	T	T
15													15													15	0.00	0.00
16											0.18	0.22	16	0.01												16	0.41	0.41
17													17	T	T		T		T	T						17	T	T
18								T					18	T	T	0.03	0.02	T	T	0.12	0.06	0.02		0.20	0.01	18	0.46	0.46
19		0.26	T	0.01		0.01			T		0.03	0.01	19		0.01											19	0.33	0.33
20													20													20	0.00	0.00
21								0.04	0.05				21			T	T				0.02		T	0.03		21	0.14	0.14
22													22													22	0.00	0.00
23													23													23	0.00	0.00
24													24													24	0.00	0.00
25													25													25	0.00	0.00
26													26													26	0.00	0.00
27													27													27	0.00	0.00
28													28						0.39	T						28	0.39	0.39
29													29													29	0.00	0.00
30													30													30	0.00	0.00
31													31													31	0.00	0.00

*** Indicates sum of Hourly and Daily disagree.**

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hr/Min)												

Date and time are not entered for TRACE amounts.

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.

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	
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
AUGUST 2010

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:

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Station Augmentation-OAK RIDGE ATDD COOP
  Lat/Lon:36.00278/-84.24861 Elevation:905FT
  Distance:1.5 MI Dir:SW
  Augmented Elements:Temp,Precip,Snow
  Equipment:Pcpn-Model TRP525M, Temp Vaisala HMP35C,
     Snow Board, Snow Stick
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Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR-SS		MN-MN				
	TOTAL MINUTES	PERCENT POSSIBLE	Sky Cover	Satellite	Sky Cover	Satellite	MINIMUM	MAXIMUM	
01							4.00	10.00	
02							5.00	10.00	
03							4.00	9.00	
04							4.00	10.00	
05							4.00	10.00	
06							0.25	10.00	
07							5.00	10.00	
08							4.00	10.00	
09							5.00	10.00	
10							4.00	9.00	
11							6.00	10.00	
12							3.00	10.00	
13							0.25	10.00	
14							5.00	10.00	
15							7.00	10.00	
16							0.75	10.00	
17							4.00	10.00	
18							0.25	10.00	
19							1.50	10.00	
20							10.00	10.00	
21							2.50	10.00	
22							7.00	10.00	
23							0.50	10.00	
24							5.00	10.00	
25							5.00	10.00	
26							2.50	10.00	
27							9.00	10.00	
28							1.75	10.00	
29							0.25	10.00	
30							5.00	10.00	
31							0.25	10.00	
MONTHLY AVGS							3.73	9.94	

SUNSHINE (Minutes)

Total : 0 **Possible :**
Percent Possible :

NUMBER OF DAYS WITH :
SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
5	12	4

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2010 KOQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0544 AUG 01 SUNSET: 1943								
01	SCT	110			5.00	BR	75	73	74	94	0	00	28.91	29.84
04	OVC	013			5.00	BR	75	73	74	94	0	00	28.92	29.84
07	OVC	012			6.00	BR	76	74	75	94	0	00	28.95	29.87
10	OVC	019			10.00		79	74	76	85	0	00	28.96	29.88
13	BKN	030			10.00		87	75	78	68	5	VR	28.94	29.85
16	BKN	055			10.00		91	74	79	58	10	01	28.92	29.83
19	FEW	050			10.00		88	72	77	59	3	06	28.93	29.84
22	CLR	NC			10.00		79	75	76	88	0	00	28.98	29.90
						SUNRISE: 0545 AUG 02 SUNSET: 1942								
01	CLR	NC			7.00		76	74	75	94	0	00	29.00	29.91
04	BKN	065			6.00	BR	76	74	75	94	0	00	29.04	29.95
07	OVC	034			5.00	BR	76	74	75	94	0	00	29.07	29.98
10	OVC	021			10.00		82	73	76	74	0	00	29.10	30.02
13	CLR	NC			10.00		88	74	78	63	7	23	29.09	30.00
16	CLR	NC			10.00		91	72	78	54	6	23	29.05	29.96
19	CLR	NC			10.00		87	74	78	65	3	VR	29.06	29.97
22	SCT	031			8.00		82	76	78	82	0	00	29.12	30.03
						SUNRISE: 0546 AUG 03 SUNSET: 1941								
01	OVC	033			8.00		81	75	77	82	3	25	29.13	30.03
04	OVC	029			8.00		79	74	76	85	0	00	29.10	30.02
07	BKN	036			7.00		79	74	76	85	5	VR	29.15	30.07
10	OVC	021			8.00		81	74	76	79	3	VR	29.17	30.09
13	SCT	035			7.00		88	75	79	65	0	00	29.12	30.03
16	FEW	037			7.00		90	75	79	61	5	20	29.08	29.99
19	CLR	NC			6.00	HZ	86	78	80	77	0	00	29.08	29.99
22	CLR	NC			5.00	BR	80	77	78	91	0	00	29.08	29.99
						SUNRISE: 0546 AUG 04 SUNSET: 1940								
01	CLR	NC			4.00	BR	78	76	77	94	0	00	29.07	29.99
04	CLR	NC			4.00	BR	77	75	76	94	0	00	29.06	29.97
07	CLR	NC			4.00	BR	78	76	77	94	0	00	29.09	30.00
10	SCT	016			7.00		85	76	79	75	6	24	29.10	30.01
13	CLR	NC			10.00		93	77	81	60	7	20	29.05	29.95
16	CLR	NC			8.00		91	79	82	68	0	00	28.99	29.90
19	CLR	NC			10.00		91	77	81	64	3	18	28.96	29.87
22	CLR	NC			6.00	BR	83	79	80	88	0	00	29.00	29.91
						SUNRISE: 0547 AUG 05 SUNSET: 1939								
01	CLR	NC			5.00	BR	81	79	80	94	0	00	28.99	29.89
04	CLR	NC			5.00	BR	79	77	78	94	0	00	28.97	29.88
07	CLR	NC			6.00	BR	78	75	76	91	0	00	28.98	29.88
10	FEW	070			8.00		86	75	78	70	6	21	28.99	29.89
13	BKN	045			8.00		88	76	79	68	9	27	28.94	29.84
16	FEW	090			10.00		79	73	75	82	0	00	28.95	29.86
19	CLR	NC			8.00		79	75	76	88	3	32	28.92	29.83
22	FEW	085			9.00		76	73	74	90	0	00	28.96	29.88
						SUNRISE: 0548 AUG 06 SUNSET: 1938								
01	CLR	NC			10.00		74	72	73	94	0	00	28.96	29.87
04	VV	002			0.25	FG	72	71	71	97	0	00	28.93	29.86
07	OVC	002			3.00	BR	73	72	72	97	0	00	28.98	29.90
10	BKN	050			10.00		78	72	74	82	0	00	29.01	29.93
13	OVC	095			7.00	-RA	78	75	76	91	0	00	29.00	29.92
16	BKN	050			10.00		86	72	76	63	0	00	28.93	29.84
19	CLR	NC			10.00		86	70	75	59	0	00	28.93	29.84
22	CLR	NC			10.00		74	69	71	84	0	00	28.97	29.90

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0549 AUG 07 SUNSET: 1937								
01	CLR	NC			7.00		71	69	70	93	0	00	28.98	29.91
04	CLR	NC			6.00	BR	69	67	68	93	0	00	28.98	29.91
07	CLR	NC			5.00	BR	69	67	68	93	0	00	29.01	29.93
10	CLR	NC			10.00		81	68	72	65	0	00	29.03	29.95
13	CLR	NC			10.00		87	66	73	50	0	00	29.01	29.93
16	BKN	065			10.00		87	65	72	48	0	00	28.97	29.89
19	CLR	NC			10.00		83	66	72	57	3	05	28.98	29.90
22	CLR	NC			10.00		74	67	69	79	0	00	29.03	29.95
						SUNRISE: 0549 AUG 08 SUNSET: 1936								
01	CLR	NC			6.00	BR	70	67	68	90	0	00	29.02	29.93
04	CLR	NC			5.00	BR	68	66	67	93	0	00	29.02	29.94
07	CLR	NC			4.00	BR	69	66	67	90	0	00	29.06	29.98
10	CLR	NC			9.00		81	67	72	63	0	00	29.07	29.99
13	SCT	040			10.00		89	69	75	52	5	VR	29.04	29.96
16	FEW	085			10.00		92	67	75	44	5	VR	29.00	29.91
19	CLR	NC			10.00		88	70	75	55	0	00	28.98	29.90
22	CLR	NC			9.00		77	72	74	85	0	00	29.04	29.96
						SUNRISE: 0550 AUG 09 SUNSET: 1935								
01	CLR	NC			8.00		74	71	72	90	0	00	29.06	29.97
04	CLR	NC			7.00		73	70	71	90	0	00	29.05	29.96
07	CLR	NC			5.00	BR	72	69	70	90	0	00	29.10	30.01
10	CLR	NC			9.00		84	72	76	67	3	VR	29.10	30.02
13	FEW	080			10.00		91	73	78	56	3	VR	29.08	29.99
16	CLR	NC			10.00		94	72	78	49	7	VR	29.03	29.93
19	CLR	NC			10.00		90	72	77	56	0	00	29.02	29.93
22	FEW	060			7.00		81	75	77	82	0	00	29.06	29.97
						SUNRISE: 0551 AUG 10 SUNSET: 1934								
01	FEW	050			6.00	BR	78	75	76	91	0	00	29.06	29.97
04	FEW	050			5.00	BR	76	74	75	94	0	00	29.06	29.97
07	BKN	095			4.00	BR	78	75	76	91	0	00	29.08	29.99
10	CLR	NC			8.00		87	73	77	63	6	VR	29.10	30.01
13	CLR	NC			9.00		94	72	78	49	5	27	29.06	29.97
16	CLR	NC			9.00		94	70	77	46	5	VR	29.01	29.92
19	CLR	NC			7.00		90	76	80	64	0	00	29.00	29.91
22	CLR	NC			6.00	HZ	83	77	79	82	0	00	29.04	29.95
						SUNRISE: 0552 AUG 11 SUNSET: 1933								
01	CLR	NC			6.00	HZ	81	76	77	85	0	00	29.06	29.96
04	CLR	NC			8.00		79	72	74	79	0	00	29.03	29.93
07	SCT	080			6.00	HZ	78	73	75	85	0	00	29.06	29.96
10	CLR	NC			9.00		87	73	77	63	6	21	29.06	29.96
13	CLR	NC			8.00		93	72	78	51	3	VR	29.01	29.92
16	FEW	055			7.00		93	75	80	56	7	VR	28.95	29.85
19	CLR	NC			7.00		91	75	79	60	0	00	28.93	29.84
22	BKN	090			7.00		84	77	79	80	0	00	28.96	29.87
						SUNRISE: 0553 AUG 12 SUNSET: 1932								
01	OVC	100			4.00	-RA BR	76	75	75	97	5	22	29.00	29.91
04	FEW	110			6.00	BR	76	74	75	94	0	00	28.94	29.85
07	OVC	004			3.00	BR	76	74	75	94	0	00	28.97	29.88
10	CLR	NC			10.00		84	74	77	72	5	VR	28.97	29.88
13	OVC	095			7.00	-RA	82	75	77	79	3	23	28.95	29.86
16	CLR	NC			10.00		81	73	75	77	0	00	28.89	29.81
19	CLR	NC			10.00		82	74	76	77	5	23	28.89	29.81
22	CLR	NC			8.00		77	74	75	91	0	00	28.90	29.82

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
AUGUST 2010 KOQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0553 AUG 13 SUNSET: 1931								
01	CLR	NC			5.00	BR	76	74	75	94	0	00	28.89	29.81
04	BKN	002			3.00	BR	74	73	73	97	0	00	28.90	29.82
07	VV	002			0.25	FG	74	73	73	97	0	00	28.94	29.86
10	CLR	NC			10.00		85	74	77	70	0	00	28.95	29.86
13	CLR	NC			10.00		92	73	78	54	3	16	28.92	29.83
16	CLR	NC			10.00		96	70	78	43	5	VR	28.87	29.78
19	CLR	NC			10.00		89	75	79	63	3	VR	28.87	29.78
22	BKN	075			10.00		83	74	77	74	0	00	28.95	29.85
						SUNRISE: 0554 AUG 14 SUNSET: 1929								
01	CLR	NC			9.00		80	74	76	82	0	00	28.94	29.85
04	BKN	070			8.00		78	75	76	91	0	00	28.98	29.88
07	BKN	110			5.00	BR	77	74	75	91	0	00	29.01	29.93
10	BKN	110			10.00		84	74	77	72	0	00	29.02	29.93
13	BKN	037			10.00		90	73	78	57	0	00	29.00	29.91
16	OVC	075			10.00		84	74	77	72	9	16	28.98	29.89
19	CLR	NC			10.00		83	75	77	77	0	00	28.98	29.90
22	BKN	090			10.00		80	75	76	85	3	24	29.06	29.98
						SUNRISE: 0555 AUG 15 SUNSET: 1928								
01	CLR	NC			10.00		79	74	76	85	0	00	29.03	29.94
04	CLR	NC			9.00		77	74	75	91	0	00	29.00	29.92
07	CLR	NC			8.00		77	74	75	91	0	00	29.04	29.96
10	SCT	020			10.00		85	75	78	72	5	VR	29.07	29.98
13	FEW	041			10.00		89	72	77	57	3	26	29.04	29.95
16	CLR	NC			10.00		91	73	78	56	0	00	28.98	29.88
19	CLR	NC			10.00		89	76	80	66	0	00	28.97	29.88
22	CLR	NC			8.00		81	78	79	91	0	00	29.02	29.93
						SUNRISE: 0556 AUG 16 SUNSET: 1927								
01	FEW	055			9.00		81	77	78	88	3	27	29.02	29.93
04	CLR	NC			9.00		78	76	77	94	0	00	29.01	29.91
07	BKN	038			7.00		78	76	77	94	0	00	29.05	29.96
10	CLR	NC			10.00		87	75	78	68	0	00	29.07	29.98
13	FEW	034			6.00	BR	78	76	77	94	3	VR	29.07	29.98
16	CLR	NC			10.00		88	73	77	61	0	00	29.03	29.94
19	CLR	NC			10.00		82	71	74	69	0	00	29.04	29.96
22	CLR	NC			10.00		78	73	75	85	0	00	29.08	29.99
						SUNRISE: 0557 AUG 17 SUNSET: 1926								
01	CLR	NC			9.00		75	72	73	90	0	00	29.08	30.00
04	CLR	NC			6.00	BR	74	72	73	94	0	00	29.07	29.98
07	OVC	005			5.00	BR	74	72	73	94	0	00	29.10	30.03
10	CLR	NC			10.00		82	73	76	74	5	VR	29.10	30.03
13	SCT	110			10.00		85	73	77	67	7	20	29.09	30.00
16	OVC	026			10.00		80	75	76	85	0	00	29.08	30.00
19	OVC	050			9.00		77	73	74	88	0	00	29.09	30.01
22	CLR	NC			6.00	BR	76	74	75	94	0	00	29.10	30.03
						SUNRISE: 0557 AUG 18 SUNSET: 1925								
01	VV	002			0.50	FG	74	73	73	97	0	00	29.10	30.02
04	VV	002			0.25	FG	72	72	72	100	0	00	29.09	30.01
07	BKN	002			6.00	BR	73	72	72	97	0	00	29.09	30.02
10	BKN	008			10.00		76	73	74	90	0	00	29.10	30.03
13	BKN	065			10.00	-RA	85	72	76	65	7	VR	29.05	29.97
16	OVC	100			10.00	-RA	75	72	73	90	0	00	29.04	29.97
19	OVC	075			3.00	RA BR	74	72	73	94	0	00	29.05	29.98
22	BKN	070			10.00		73	72	72	97	0	00	29.04	29.97

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0558 AUG 19 SUNSET: 1923								
01	OVC	090			9.00		73	72	72	97	0	00	29.00	29.92
04	OVC	021			10.00		73	72	72	97	0	00	28.98	29.91
07	OVC	040			10.00		74	72	73	94	0	00	28.98	29.91
10	OVC	017			8.00		77	75	76	94	0	00	28.98	29.91
13	OVC	020			10.00		78	73	75	85	3	07	28.99	29.91
16	SCT	048			10.00		83	72	75	70	6	07	28.97	29.89
19	BKN	050			10.00		82	71	74	69	0	00	28.97	29.89
22	CLR	NC			10.00		73	71	72	93	0	00	29.01	29.93
						SUNRISE: 0559 AUG 20 SUNSET: 1922								
01	FEW	002			10.00		70	69	69	97	0	00	29.02	29.94
04	CLR	NC			10.00		68	67	67	97	0	00	29.00	29.93
07	FEW	003			10.00		70	68	69	93	0	00	29.03	29.95
10														
13	FEW	027			10.00		86	72	76	63	3	VR	29.01	
16	CLR	NC			10.00		90	68	75	48	0	00	28.95	
19	CLR	NC			10.00		87	70	75	57	0	00	28.96	
22	OVC	090			10.00		80	73	75	79	3	16	29.00	
						SUNRISE: 0560 AUG 21 SUNSET: 1921								
01	OVC	090			10.00		78	72	74	82	3	28	28.99	29.90
04	FEW	075			10.00		76	72	73	87	0	00	28.98	29.89
07	OVC	037			10.00		77	72	74	85	0	00	29.01	29.92
10	BKN	027			10.00		79	74	76	85	3	25	29.04	29.95
13	OVC	035			10.00		83	74	77	74	7	13	29.00	29.92
16	CLR	NC			10.00		82	76	78	82	3	26	28.95	29.87
19	OVC	090			10.00		78	71	73	79	0	00	28.97	29.89
22	OVC	095			9.00	-RA	75	73	74	94	0	00	29.00	29.92
						SUNRISE: 0601 AUG 22 SUNSET: 1920								
01	FEW	010			8.00		75	74	74	97	0	00	28.98	29.90
04	OVC	006			8.00		75	73	74	94	0	00	28.99	29.91
07	SCT	006			10.00		75	73	74	94	0	00	29.02	29.94
10	BKN	049			10.00		82	74	76	77	5	08	29.03	29.95
13	FEW	040			10.00		88	71	76	57	5	01	29.01	29.93
16	CLR	NC			10.00		89	67	74	48	8	05	28.99	29.90
19	CLR	NC			10.00		83	68	73	61	3	VR	28.98	29.89
22	CLR	NC			10.00		75	70	72	85	0	00	29.02	29.94
						SUNRISE: 0601 AUG 23 SUNSET: 1918								
01	CLR	NC			7.00		71	69	70	93	0	00	29.00	29.92
04	CLR	NC			6.00	BR	70	68	69	93	0	00	28.99	29.90
07	VV	002			0.50	FG	69	68	68	97	0	00	29.01	29.93
10	CLR	NC			10.00		81	69	73	67	7	07	29.03	29.95
13	FEW	044			10.00		84	65	71	53	3	VR	29.00	29.92
16	CLR	NC			10.00		87	62	71	43	6	36	28.97	29.88
19	CLR	NC			10.00		79	61	68	54	5	01	28.96	29.89
22	CLR	NC			10.00		71	62	65	73	0	00	28.99	29.91
						SUNRISE: 0602 AUG 24 SUNSET: 1917								
01	CLR	NC			10.00		68	63	65	84	0	00	28.97	29.90
04	CLR	NC			8.00		65	63	64	93	0	00	28.94	29.87
07	CLR	NC			5.00	BR	66	63	64	90	0	00	28.97	29.90
10	CLR	NC			10.00		78	66	70	67	5	VR	28.99	29.92
13	BKN	065			10.00		84	62	70	48	7	06	28.96	29.88
16	BKN	065			10.00		82	63	70	53	5	VR	28.92	29.85
19	CLR	NC			10.00		78	64	69	62	0	00	28.94	29.87
22	CLR	NC			10.00		71	64	67	79	0	00	29.00	29.93

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
AUGUST 2010 KOQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
	SUNRISE: 0603			AUG 25		SUNSET: 1916								
01	CLR	NC			10.00		69	63	65	81	0	00	28.99	29.91
04	CLR	NC			9.00		65	62	63	90	0	00	28.99	29.92
07	CLR	NC			5.00	BR	66	63	64	90	0	00	29.03	29.97
10	CLR	NC			10.00		77	63	68	62	6	06	29.05	29.98
13	FEW	043			10.00		83	61	69	48	5	15	29.06	29.98
16	CLR	NC			10.00		85	62	70	46	3	VR	29.04	29.96
19	CLR	NC			10.00		79	64	69	60	0	00	29.05	29.98
22	CLR	NC			9.00		70	66	67	87	0	00	29.09	30.01
	SUNRISE: 0604			AUG 26		SUNSET: 1914								
01	CLR	NC			7.00		66	64	65	93	0	00	29.10	30.03
04	CLR	NC			5.00	BR	64	62	63	93	0	00	29.10	30.02
07	BKN	002			2.50	BR	64	63	63	97	0	00	29.13	30.07
10	CLR	NC			10.00		80	67	71	65	3	VR	29.13	30.07
13	CLR	NC			10.00		86	64	71	48	5	VR	29.12	30.04
16	CLR	NC			10.00		88	61	70	40	6	35	29.07	30.00
19	CLR	NC			10.00		80	64	70	58	3	VR	29.08	30.02
22	CLR	NC			10.00		73	62	66	69	3	07	29.13	30.05
	SUNRISE: 0604			AUG 27		SUNSET: 1913								
01	CLR	NC			10.00		68	63	65	84	0	00	29.13	30.05
04	CLR	NC			10.00		65	62	63	90	0	00	29.12	30.04
07	CLR	NC			9.00		65	62	63	90	0	00	29.13	30.07
10	CLR	NC			10.00		78	64	69	62	9	07	29.14	30.07
13	CLR	NC			10.00		87	63	71	45	5	VR	29.13	30.05
16	CLR	NC			10.00		88	61	70	40	3	VR	29.09	30.01
19	CLR	NC			10.00		82	64	70	55	0	00	29.09	30.02
22	CLR	NC			10.00		74	66	69	76	0	00	29.13	30.06
	SUNRISE: 0605			AUG 28		SUNSET: 1912								
01	CLR	NC			10.00		71	66	68	84	0	00	29.15	30.08
04	CLR	NC			7.00		68	66	67	93	0	00	29.14	30.08
07	CLR	NC			5.00	BR	68	65	66	90	0	00	29.20	30.13
10	CLR	NC			10.00		81	68	72	65	3	VR	29.21	30.14
13	FEW	040			10.00		89	69	75	52	0	00	29.19	30.11
16	CLR	NC			10.00		91	65	73	42	5	VR	29.13	30.06
19	CLR	NC			8.00		74	71	72	90	0	00	29.15	30.10
22	FEW	120			7.00		73	71	72	93	0	00	29.20	30.14
	SUNRISE: 0606			AUG 29		SUNSET: 1910								
01	CLR	NC			4.00	BR	70	68	69	93	0	00	29.22	30.15
04	OVC	002			2.00	BR	68	67	67	97	0	00	29.24	30.17
07	VV	001			0.25	FG	67	66	66	97	0	00	29.29	30.24
10	CLR	NC			9.00		78	69	72	74	3	VR	29.32	30.25
13	FEW	046			10.00		86	66	73	51	0	00	29.28	30.21
16	FEW	070			10.00		87	64	72	46	0	00	29.23	30.16
19	FEW	100			10.00		83	69	73	63	0	00	29.22	30.16
22	CLR	NC			10.00		76	71	73	85	0	00	29.27	30.20
	SUNRISE: 0607			AUG 30		SUNSET: 1909								
01	CLR	NC			8.00		73	70	71	90	0	00	29.29	30.22
04	FEW	065			5.00	BR	71	69	70	93	0	00	29.31	30.24
07	FEW	070			5.00	BR	71	68	69	90	0	00	29.36	30.29
10	CLR	NC			10.00		79	68	72	69	0	00	29.36	30.30
13	CLR	NC			10.00		85	67	73	55	0	00	29.32	30.25
16	FEW	060			10.00		87	62	71	43	3	21	29.27	30.19
19	CLR	NC			10.00		82	68	73	63	0	00	29.25	30.18
22	CLR	NC			10.00		72	67	69	84	0	00	29.28	30.22

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
	SUNRISE: 0608			AUG 31		SUNSET: 1908								
01	CLR	NC			8.00		68	65	66	90	0	00	29.27	30.21
04	VV	001			0.25	FG	65	64	64	97	0	00	29.27	30.21
07	VV	002			0.25	FG	64	64	64	100	0	00	29.31	30.26
10	CLR	NC			10.00		77	68	71	74	0	00	29.33	30.26
13	CLR	NC			10.00		87	63	71	45	0	00	29.26	30.19
16	CLR	NC			10.00		89	61	71	39	0	00	29.19	30.13
19	CLR	NC			10.00		83	65	71	55	0	00	29.17	30.11
22	CLR	NC			10.00		72	67	69	84	0	00	29.19	30.13

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

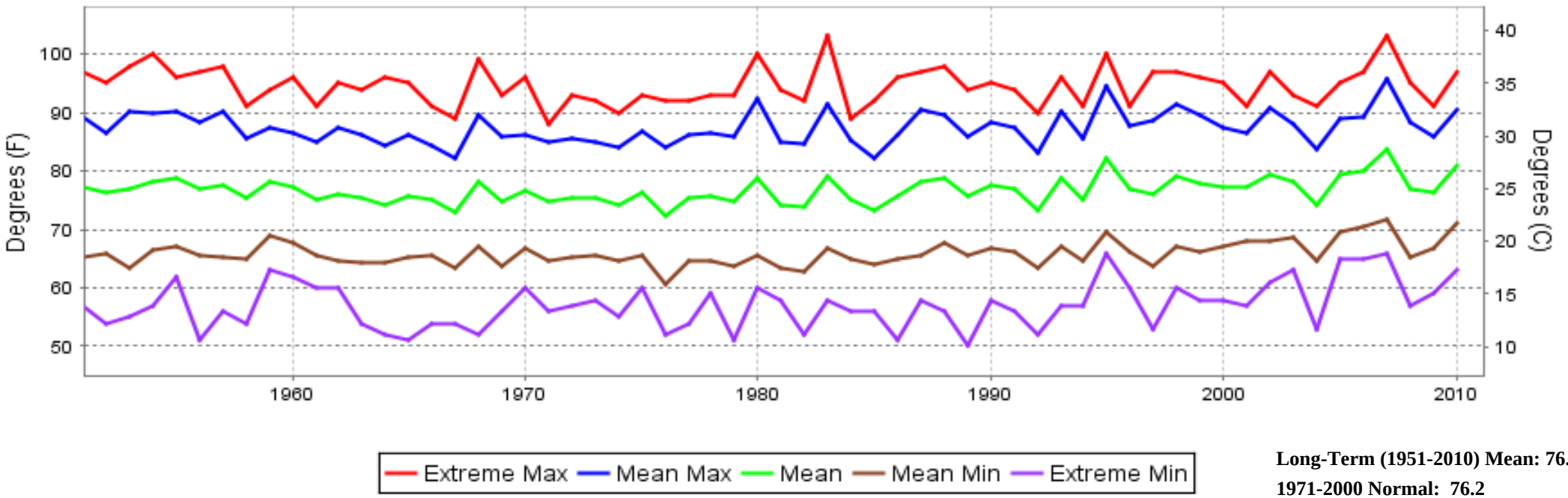
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation containted 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			74	71	72	90	29.05	29.96	7.40	0	3	25
02			73	71	72	91	29.04	29.96	6.70	0	xx	xx
03			73	70	71	92	29.04	29.96	6.41	0	xx	xx
04			72	70	71	93	29.04	29.96	6.15	0	xx	xx
05			72	70	71	94	29.05	29.97	5.91	0	xx	xx
06			72	70	70	93	29.06	29.98	5.72	0	xx	xx
07			73	70	71	93	29.07	29.99	5.22	0	xx	xx
08			75	71	72	88	29.08	30.00	6.76	1	1	13
09			78	71	73	80	29.08	30.00	8.68	3	0	15
10			81	71	75	72	29.09	30.01	9.50	3	1	11
11			84	71	75	68	29.08	30.00	9.04	3	1	11
12			85	71	76	63	29.07	29.99	9.40	4	1	11
13			87	71	76	60	29.06	29.98	9.42	4	1	25
14			87	70	75	59	29.04	29.96	9.81	3	0	23
15			88	69	75	56	29.03	29.94	9.74	4	0	21
16			87	69	75	57	29.02	29.94	9.71	3	1	13
17			87	69	75	58	29.01	29.93	9.61	3	0	15
18			86	70	75	61	29.01	29.93	9.35	3	0	15
19			83	71	75	67	29.02	29.94	9.29	1	1	18
20			80	71	74	76	29.03	29.95	9.42	0	xx	xx
21			78	72	74	81	29.04	29.97	9.13	0	xx	xx
22			77	72	73	85	29.05	29.98	8.84	0	xx	xx
23			76	71	73	86	29.06	29.98	8.34	0	xx	xx
24			75	71	72	88	29.06	29.98	8.26	0	xx	xx

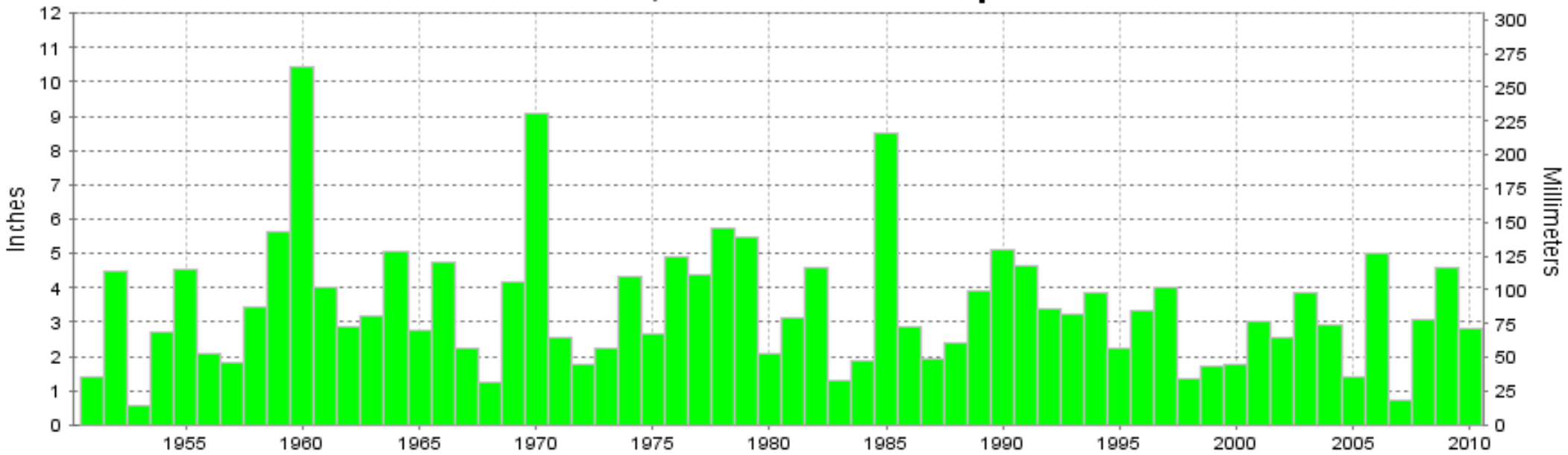
OAK RIDGE, TN AUGUST Temperatures



Long-Term (1951-2010) Mean: 76.7

1971-2000 Normal: 76.2

OAK RIDGE, TN AUGUST Precipitation



Long-Term (1951-2010) Mean Monthly Total: 3.46

1971-2000 Normal: 3.39

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AUGUST 2010
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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