



# OCTOBER 2009 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 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		LST 11	LST 12	LST 13	LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	72	46	59	-5	51	53	6	0	FG+ FG BR			0.00	29.08	30.03	0.2	10	1.1	14	25	9	26	01		
02	72	52	62	-2	57	59	3	0	RA BR			0.07	28.89	29.85	2.2	23	3.1	23	22	12	21	02		
03	73	46	60	-4	45	51	5	0				0.00	28.97	29.94	2.3	23	2.9	25	21	15	20	03		
04	63	47	55	-8	50	52	10	0	RA BR			0.46	29.11	30.10	0.3	26	0.3	9	26	6	20	04		
05	69	53	61	-2	56	58	4	0	RA BR			0.17	29.07	30.01	1.1	07	1.7	13	04	8	06	05		
06	67	62	65	3	61	62	0	0	RA BR			0.06	28.98	29.92	2.2	24	3.2	15	32	9	26	06		
07	72	50	61	-1	53	58	4	0	RA BR			0.12	29.03	30.02	2.3	25	3.0	18	27	12	26	07		
08	73	46	60	-1	52	56	5	0	FG+ FG BR			0.00	29.15	30.11	0.3	16	1.3	13	18	8	18	08		
09	80*	64	72*	11	65	66	0	7	RA BR			0.85	28.97	29.90	1.8	22	2.6	29*	29	18*	19	09		
10	65	55	60	-1	56	58	5	0	RA HZ			0.05	29.09	30.08	1.1	06	2.0	10	05	8	06	10		
11	66	53	60	0	52	55	5	0				0.00	29.23	30.21	1.8	06	2.4	12	06	9	07	11		
12	65	53	59	-1	56	57	6	0	RA BR			0.29	29.20	30.16	0.6	09	1.2	8	26	7	25	12		
13	72	59	66	7	60	61	0	1	RA BR			0.18	29.21	30.17	0.5	07	1.0	12	36	7	01	13		
14	63	58	61	2	60	60	4	0	RA BR			0.91	29.03	29.97	0.5	18	1.3	10	20	7	21	14		
15	63	55	59	0	58	58	6	0	RA BR			0.93	28.82	29.77	1.5	26	2.8	14	24	8	25	15		
16	55	47	51	-7	45	48	14	0				0.00	28.92	29.92	1.7	35	2.2	12	32	8	35	16		
17	50	42	46	-12	38	42	19	0	RA			T	29.14	30.15	1.9	34	3.5	17	31	12	32	17		
18	53	35	44*	-14	32	39	21	0	RA			T	29.31	30.32	1.2	02	2.5	20	04	13	01	18		
19	60	34*	47	-10	36	40	18	0	FG+ FG BR			0.00	29.32	30.33	0.1	14	0.1	10	21	7	19	19		
20	67	36	52	-5	41	45	13	0	FG+ BR			0.00	29.31	30.31	0.3	17	0.5	10	17	7	19	20		
21	69	40	55	-1	45	48	10	0	FG+ FG BR			0.00	29.26	30.25	0.1	08	0.1	6	22	5	21	21		
22	73	45	59	3	49	52	6	0	FG+ FG BR			0.00	29.11	30.06	0.4	18	1.1	15	18	10	19	22		
23	73	56	65	9	61	62	0	0	RA BR			0.45	28.83	29.76	1.9	19	2.4	24	21	16	18	23		
24	64	39	52	-3	45	49	13	0	FG BR			0.00	28.89	29.89	2.9	25	4.1	21	29	13	26	24		
25	65	38	52	-3	41	45	13	0	FG+ BR			0.00	29.13	30.13	1.3	07	2.3	15	08	13	09	25		
26	64	40	52	-3	45	48	13	0	FG+ FG BR			0.00	29.17	30.15	0.3	10	0.3	10	07	7	09	26		
27	56	51	54	0	53	53	11	0	RA BR			0.55	29.00	29.94	1.4	06	1.9	14	06	8	06	27		
28	70	52	61	7	54	56	4	0				0.00	28.98	29.99	1.0	23	1.9	15	24	8	25	28		
29	68	48	58	5	53	55	7	0	RA			T	29.15	30.12	0.3	04	0.7	10	03	7	36	29		
30	73	54	64	11	57	60	1	0				0.00	29.04	29.98	2.1	20	2.9	21	19	14	21	30		
31	71	47	59	6	52	54	6	0	RA BR			0.64	28.97	29.95	2.6	22	4.4	24	20	16	20	31		

66.6		48.5		57.6		Σ	50.9		53.5		7.5		0.3		< MONTHLY AVERAGES		TOTALS >		5.73		29.08		30.05		0.4		23		2.0		< MONTHLY AVERAGES	
-4.5		2.8		-0.8			<-----DEPARTURE FROM NORMAL----->										2.71		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.21 DATE : 14-15										SEA LEVEL PRESSURE				DATE		TIME						
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :				30.42		19		0956				
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :				29.68		23		1755				
HEATING :		232		2		246		-14		NUMBER OF		->		MAXIMUM TEMP >= 90 :		0		MINIMUM TEMP <= 32 :		0		PRECIPITATION >= 0.01 INCH :		14		PRECIPITATION >= 0.10 INCH :		11				
COOLING :		8		-15		1424		124		DAYS WITH		THUNDERSTORMS		:		0		HEAVY FOG		:		8		SNOWFALL >= 1.0 INCH		:						

OCTOBER 2009  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
OCTOBER 2009

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		T										02	0.07	0.07	
03													03												03	0.00	0.00	
04													04												04	0.46	0.46	
05	0.11	0.02	0.03	0.01	T								05			0.01	T	T	0.01	0.04	0.06	0.06	0.05	0.06	0.17	0.46	0.17	
06													06				0.04	T	T	0.01	T	T	T		0.01	0.06	0.06	
07													07												07	0.12	0.12	
08													08												08	0.00	0.00	
09													09												09	0.85	0.85	
10													10		T	0.21				0.54	0.03	T	T		10	0.05	0.05	
11													11												11	0.00	0.00	
12													12	T											12	0.29	0.29	
13													13												13	0.18	0.18	
14	0.01	T											14	0.01	0.02	0.02	0.02								14	0.91	0.91	
15	0.02	0.03	0.01	0.02	T	0.08	0.22	0.12	0.23	0.18	T		15	0.01	T	0.01									15	0.93	0.93	
16													16												16	0.00	0.00	
17													17												17	T	T	
18													18												18	T	T	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23	T	0.02	0.01	T									23	T	T	T									23	0.45	0.45	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27	0.04	0.09	0.08	0.07	0.09	0.03	0.03	T	0.01	0.04	0.05	T	0.55	0.55	
28													28												28	0.00	0.00	
29													29				T								29	T	T	
30													30												30	0.00	0.00	
31													31	T	T	T		0.01	0.01	0.01	0.02	T			31	0.64	0.64	

\* 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)	0.20	0.33	0.50	0.52	0.53	0.54	0.55	0.55	0.57	0.57	0.57	0.60
Ending Date	09	09	09	09	09	09	09	09	09	09	09	15
Ending Time (Hr/Min)	1828	1825	1829	1833	1833	1854	1900	1932	1939	1939	1939	0848

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 2009

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:

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

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							0.25	10.00	
02							4.00	10.00	
03							8.00	10.00	
04							4.00	10.00	
05							6.00	10.00	
06							4.00	10.00	
07							1.75	10.00	
08							0.25	10.00	
09							6.00	10.00	
10							6.00	10.00	
11							10.00	10.00	
12							4.00	10.00	
13							4.00	10.00	
14							2.00	10.00	
15							1.50	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							9.00	10.00	
19							0.25	10.00	
20							0.00	10.00	
21							0.25	10.00	
22							0.25	10.00	
23							1.50	10.00	
24							0.75	10.00	
25							0.25	10.00	
26							0.25	10.00	
27							3.00	10.00	
28							10.00	10.00	
29							8.00	10.00	
30							10.00	10.00	
31							1.25	10.00	
MONTHLY AVGS							4.08	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25			<= 3.0			>= 7.0			
8			15			8			





# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

OCTOBER 2009

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Clد Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
<b>SUNRISE: 0653      OCT 25      SUNSET: 1749</b>													
01	OVC	008			0.25	FG	38	38	38	100	0 00	29.09	30.07
04	VV	001			1.00	BR	39	39	39	100	0 00	29.10	30.08
07	OVC	001			4.00	BR	41	41	41	100	3 VR	29.14	30.14
10	CLR	NC			10.00		51	43	47	74	5 VR	29.18	30.18
13	CLR	NC			10.00		61	40	50	46	5 VR	29.15	30.13
16	CLR	NC			10.00		64	39	51	40	3 VR	29.13	30.11
19	CLR	NC			10.00		51	44	48	77	0 00	29.14	30.14
22	CLR	NC			10.00		45	42	44	89	0 00	29.16	30.15
<b>SUNRISE: 0654      OCT 26      SUNSET: 1748</b>													
01	CLR	NC			10.00		42	40	41	93	0 00	29.16	30.15
04	BKN	008			0.75	BR	40	40	40	100	0 00	29.16	30.14
07	VV	001			0.25	FG	41	41	41	100	0 00	29.21	30.21
10	FEW	003			10.00		50	48	49	93	0 00	29.24	30.23
13	CLR	NC			10.00		62	45	53	54	5 08	29.16	30.14
16	CLR	NC			10.00		63	44	53	50	0 00	29.13	30.11
19	CLR	NC			10.00		55	50	52	83	0 00	29.15	30.14
22	CLR	NC			10.00		54	51	52	90	0 00	29.13	30.11
<b>SUNRISE: 0654      OCT 27      SUNSET: 1747</b>													
01	CLR	NC			10.00		53	51	52	93	0 00	29.10	30.06
04	CLR	NC			10.00		52	51	51	96	0 00	29.10	30.07
07	OVC	090			10.00		52	51	51	96	0 00	29.10	30.07
10	OVC	060			10.00		55	52	53	90	0 00	29.09	30.06
13	OVC	085			6.00	-RA BR	55	53	54	93	6 05	28.99	29.96
16	OVC	039			4.00	RA BR	54	53	53	96	5 VR	28.89	29.86
19	OVC	041			5.00	-RA BR	54	54	54	100	3 VR	28.82	29.79
22	OVC	014			3.00	-RA BR	55	55	55	100	0 00	28.80	29.76
<b>SUNRISE: 0655      OCT 28      SUNSET: 1746</b>													
01	OVC	005			10.00		57	56	56	96	5 23	28.84	29.80
04	BKN	042			10.00		58	57	57	97	3 22	28.91	29.88
07	OVC	034			10.00		57	55	56	93	0 00	28.99	29.96
10	SCT	034			10.00		62	53	57	73	5 24	29.06	30.02
13	CLR	NC			10.00		66	51	58	59	0 00	29.04	29.99
16	FEW	040			10.00		69	53	60	57	3 22	29.05	30.00
19	CLR	NC			10.00		59	54	56	84	0 00	29.10	30.06
22	CLR	NC			10.00		53	52	52	96	0 00	29.13	30.09
<b>SUNRISE: 0656      OCT 29      SUNSET: 1745</b>													
01	CLR	NC			10.00		52	50	51	93	0 00	29.13	30.10
04	CLR	NC			10.00		50	49	49	96	0 00	29.14	30.11
07	CLR	NC			9.00		48	47	47	96	0 00	29.20	30.18
10	CLR	NC			10.00		60	53	56	78	5 02	29.21	30.18
13	CLR	NC			10.00		68	53	59	59	3 VR	29.17	30.13
16	FEW	047			10.00		66	55	60	68	0 00	29.13	30.11
19	CLR	NC			10.00		61	57	59	87	0 00	29.13	30.09
22	CLR	NC			10.00		57	56	56	96	0 00	29.12	30.08
<b>SUNRISE: 0657      OCT 30      SUNSET: 1744</b>													
01	CLR	NC			10.00		57	55	56	93	0 00	29.10	30.06
04	CLR	NC			10.00		55	54	54	96	0 00	29.09	30.04
07	OVC	070			10.00		55	54	54	96	0 00	29.10	30.06
10	OVC	075			10.00		67	55	60	66	3 26	29.10	30.05
13	OVC	042			10.00		73	56	63	55	9 19	29.02	29.97
16	OVC	038			10.00		71	58	63	64	5 21	28.99	29.94
19	BKN	065			10.00		68	59	63	73	0 00	28.96	29.91
22	OVC	048			10.00		68	60	63	76	0 00	28.92	29.86

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		
			Observation Time (LST)	Eff Clد Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
<b>SUNRISE: 0658      OCT 31      SUNSET: 1743</b>													
01	OVC	055			10.00		71	61	65	71	13 21	28.86	29.79
04	OVC	029			3.00	+RA BR	66	64	65	93	6 VR	28.84	29.78
07	OVC	043			5.00	RA BR	57	57	57	100	0 00	28.91	29.86
10	OVC	055			10.00	-RA	51	50	50	96	7 21	29.05	30.01
13	BKN	060			10.00	-RA	55	49	52	80	3 24	29.03	29.98
16	OVC	065			10.00		55	48	51	77	3 19	29.01	29.96
19	OVC	090			10.00	-RA	53	52	52	96	0 00	29.08	30.04
22	CLR	NC			10.00		49	48	48	96	0 00	29.13	30.10

## 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.

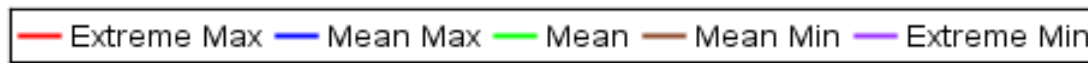
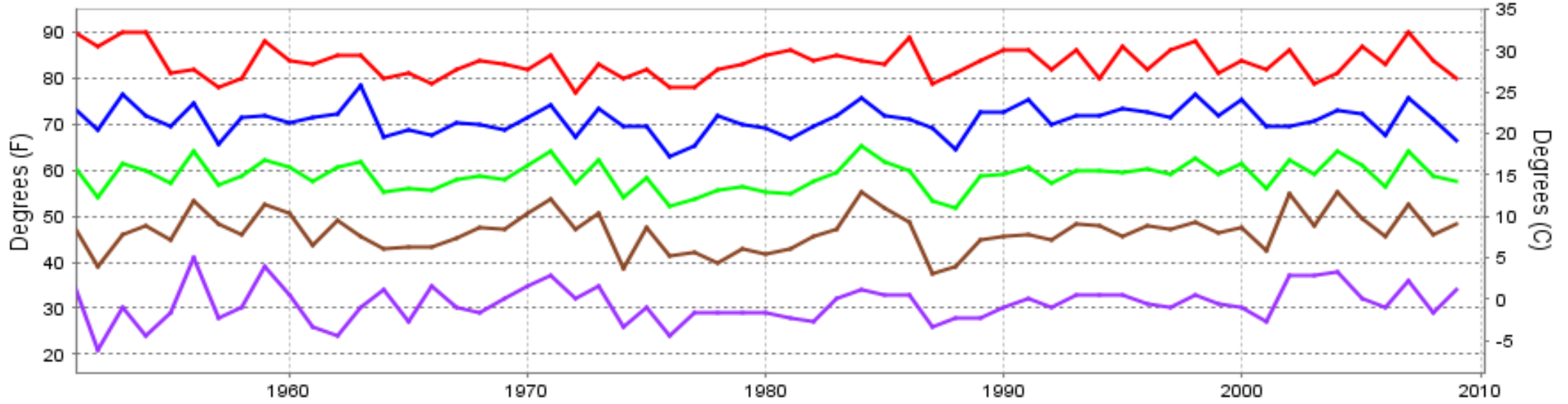
& = Original observation contained additional weather elements.

See page 3 for additional notes.

## SUMMARY BY HOUR

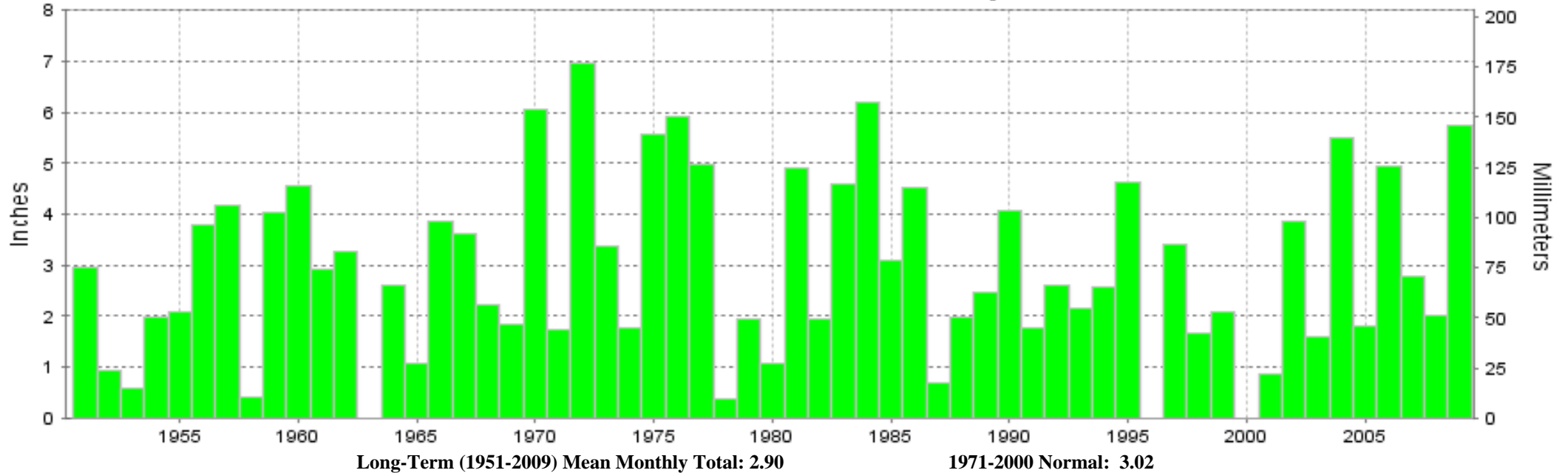
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			53	51	52	92	29.07	30.03	7.97	2	2	28
02			53	51	52	92	29.07	30.03	7.84	2	2	28
03			53	50	51	93	29.07	30.03	7.50	1	1	28
04			52	50	51	94	29.07	30.03	7.24	1	3	27
05			52	50	51	94	29.08	30.05	7.15	1	2	27
06			52	50	51	93	29.09	30.06	6.90	1	0	36
07			51	50	50	94	29.10	30.07	6.83	1	0	05
08			52	50	51	92	29.11	30.09	6.48	1	1	08
09			54	50	52	89	29.12	30.09	7.32	2	1	08
10			56	51	53	84	29.12	30.09	8.92	3	2	27
11			59	51	55	75	29.11	30.08	9.21	3	1	08
12			61	50	56	69	29.10	30.07	9.87	4	1	28
13			63	50	56	66	29.08	30.04	9.47	4	1	27
14			64	50	57	64	29.06	30.03	9.55	4	2	27
15			64	51	57	65	29.06	30.02	9.26	3	2	27
16			64	51	57	65	29.05	30.02	9.35	3	1	27
17			64	51	57	67	29.05	30.01	9.61	3	0	29
18			61	52	56	73	29.06	30.02	9.74	2	2	27
19			58	53	55	83	29.07	30.04	9.58	1	xx	xx
20			56	53	55	88	29.07	30.04	9.55	1	xxx	xx
21			55	52	54	90	29.08	30.05	9.29	1	1	08
22			55	52	53	91	29.08	30.05	8.94	0	1	28
23			54	52	53	91	29.08	30.05	8.74	1	0	29
24			54	51	52	91	29.07	30.04	8.99	1	3	27

## OAK RIDGE, TN OCTOBER Temperatures



Long-Term (1951-2009) Mean: 58.8  
 1971-2000 Normal: 58.4

## OAK RIDGE, TN OCTOBER Precipitation



Long-Term (1951-2009) Mean Monthly Total: 2.90

1971-2000 Normal: 3.02



OCTOBER 2009  
OAK RIDGE, TN

## LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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